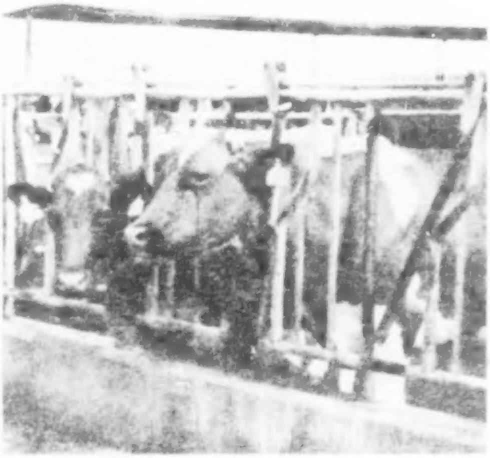
1988
ARIZONA
AGRICULTURAL STATISTICS



ISSUED JULY 1989

This twenty-fourth edition of Arizona Agricultural Statistics is the result of the combined efforts of many people. Thanks should go first to the many Arizona farmers, ranchers, and agri-businesses that cooperate with us on various surveys that are the basis for our crop and livestock production estimates. Thanks are also extended to my office staff and our crew of office and field enumerators who help collect, edit, summarize, and publish the data included in this bulletin.

A special thanks is also due to Annie Hudecock of the Agricultural Economics Department at the University of Arizona who plotted the charts and graphs that appear in the bulletin.

One new feature included in this year's bulletin are estimates on the number of angora goats in Arizona. Refer to page 82 for this information.

Your comments and suggestions regarding the content of this bulletin are always welcome.

Barry L Bloyd
Barry L. Bloyd
State Statistician

ABOUT OUR COVER

The photographs clock-wise from the upper-left are: Dairy cattle at a commercial dairy in Maricopa County; Barley being harvested on the Gila River Indian Reservation in Pinal County; Melons growing in Pinal County; and Seed Onions growing in Yuma County.

The photographs are courtesy of Chris Williams, Public Affairs Specialist, Arizona Soil Conservation Service and Barry Bloyd, State Statistician, Arizona Agricultural Statistics Service.

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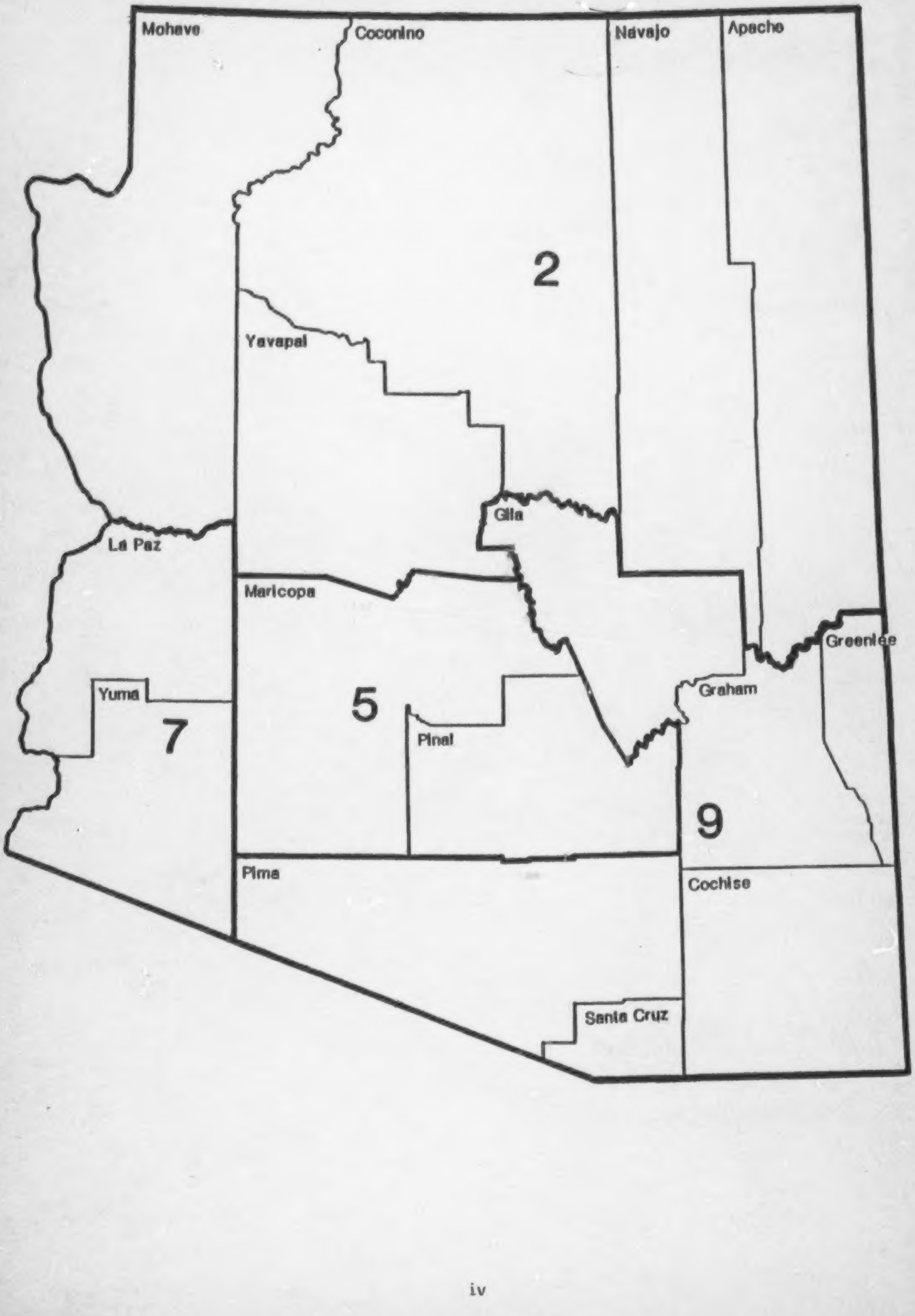
ARIZONA COUNTIES AND CROP REPORTING DISTRICTS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INTRODUCTION

A decision can be no better than the information upon which it is based. Inherently, good decisions come from more than just a large collection of data. The quality of information is equally, if not more important than quantity.

This twenty-fourth edition of "Arizona Agricultural Statistics" represents a joint effort of the College of Agriculture and the Arizona Agricultural Statistics Service to supply continuous, detailed, quality information for all decision-makers involved with agriculture.

We want to gratefully acknowledge the assistance of many Arizona farmers and ranchers who voluntarily supply the basic information that makes this service possible. Thanks also to the many agribusiness firms, other state and federal agencies, and University of Arizona departments who also furnish basic information for this publication.

Your comments and suggestions about this publication, or how we may serve you better are always welcome and appreciated.

Jimmye Hillman

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STATE SUMMARY

NUMBER OF FARMS AND RANCHES: Selected States, 1984-88 1/

State	1984	1985	1986	1987	1988
			Number		
Arizona	8,300	8,500	8,600	8,400	8,100
California	78,000	79,000	79,000	78,000	78,000
Colorado	27,000	26,700	26,600	27,000	27,300
Idaho	24,600	24,600	24,000	23,000	22,500
Montana	23,900	23,800	23,600	23,300	23,300
Nevada	2,600	2,500	2,400	2,400	2,400
New Mexico	14,000	13,800	13,600	13,500	13,500
Oregon	37,000	37,000	37,000	37,000	36,500
Texas	187,000	177,000	162,000	160,000	156,000
Utah	14,000	13,900	13,700	13,600	13,300
Washington	38,000	38,000	38,000	38,000	38,000
Wyoming	9,100	9,000	8,800	8,700	8,700
UNITED STATES	2,328,400	2,274,730	2,211,920	2,176,110	2,158,800

1/ A farm is a place as of June 1 that sells or could sell $1,000 of agricultural products during the year.

LAND IN FARMS AND RANCHES: Selected States, 1984-88 1/

State	1984	1985	1986	1987	1988	Average size of farms and ranches 1988
			1,000 acres			Acres
Arizona	37,500	37,500	37,200	37,000	36,500	4,506
California	33,000	32,900	32,800	32,600	32,500	417
Colorado	34,600	34,400	34,200	34,000	33,700	1,234
Idaho	14,700	14,500	14,200	13,800	13,700	609
Montana	61,100	61,000	60,900	60,800	60,700	2,605
Nevada	8,800	8,800	8,800	8,800	8,800	3,667
New Mexico	45,800	45,000	44,600	44,600	45,000	3,333
Oregon	18,000	18,000	17,900	17,900	17,800	488
Texas	136,800	135,500	134,000	133,200	132,000	846
Utah	11,800	11,600	11,400	11,300	11,300	850
Washington	16,100	16,100	16,000	16,000	16,000	421
Wyoming	34,800	34,800	34,800	34,800	34,800	4,000
UNITED STATES	1,019,378	1,014,383	1,007,643	1,002,603	998,692	463

1/ Land in farms, along with "average size" of farm can be misleading, especially in the western states, since it excludes all state and federal public grazing lands which are leased on a per-head basis rather than a per-acre basis. Conversely, Indian lands that cannot be accounted for in the usual individual operator manner are reported as one farm or ranch by a central tribe source. In Arizona, Indian lands contribute over 20 million acres to the State's land in farms. The Navajo nation, as one farm, accounts for almost half of the Indian land. Arizona irrigated farms which are larger than 100 acres average about 650 acres in size.

FARM BALANCE SHEET: Arizona, December 31, 1983-87 1/

Item	1983	1984	1985	1986	1987
			Million dollars		
TOTAL FARM ASSETS	12,447.3	11,392.2	10,090.7	10,540.4	9,494.5
Real estate	11,062.5	9,937.5	8,662.5	9,002.4	7,918.0
Livestock and poultry	411.0	447.9	426.9	422.8	518.8
Machinery and motor vehicles	492.0	491.1	463.7	440.2	408.1
Crops	79.3	82.4	69.3	88.4	116.8
Household equipment and furnishings	186.1	202.6	210.2	256.9	240.1
Deposits and currency	108.8	122.1	136.1	167.7	177.1
U.S. savings bonds	4.8	5.0	5.6	6.8	7.4
Investments in cooperatives	102.7	103.6	116.5	155.2	108.2
TOTAL FARM DEBT	1,852.8	1,938.2	1,792.9	1,782.6	1,729.0
Real estate debt	753.9	732.0	680.6	705.2	672.6
Nonreal estate debt	1,098.8	1,206.2	1,112.3	1,077.4	1,056.3
EQUITY	10,594.6	9,454.0	8,297.7	8,757.9	7,765.6
RATIOS			Percent		
Equity/assets	85.1	83.0	82.2	83.1	81.8
Debt/equity	17.5	20.5	21.6	20.4	22.3
Debt/assets, total	14.9	17.0	17.8	16.9	18.2
Debt/assets, real estate	6.8	7.4	7.9	7.8	8.5
Debt/assets, nonreal estate and CCC	79.3	82.9	77.9	70.1	67.0
Net farm income/debt	9.2	25.2	18.4	22.4	34.2

1/ Includes farm households.

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

FARM REAL ESTATE DEBT: Amount outstanding by lender, Arizona, December 31, 1983-87 1/

Year	Federal land banks	Farmers Home Administration	Life insurance companies	All operating banks	Individuals and others	Total 2/
			Million dollars			
1983	162	81	239	14	258	754
1984	174	78	224	18	239	732
1985	169	77	159	58	217	681
1986	157	72	161	122	192	705
1987	144	72	156	136	165	673

1/ Includes farm households.

2/ Totals may not add due to rounding.

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

FARM NONREAL ESTATE DEBT: Amount outstanding by lender, December 31, 1983-87 1/

Year	Debt owed to reporting institutions (excluding CCC)					Individuals and others	Commodity Credit Corporation	Total 2/
	All operating banks	Production credit associations	Federal intermediate credit banks	Farmers Home Administration	Total			
				Million dollars				
1983	462	191	7	220	880	218	33	1,132
1984	556	210	9	213	988	218	2	1,208
1985	512	202	8	207	929	184	49	1,161
1986	550	183	4	197	934	144	39	1,116
1987	572	161	3	183	919	138	21	1,077

1/ Includes farm households.

2/ Totals may not add due to rounding.

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

VALUE OF HOME AGRICULTURAL COMMODITY CONSUMPTION: Arizona, 1983-87 1/

Year	Livestock and Products	Crops	Total
		1,000 Dollars	
1983	4,637	834	5,471
1984	5,771	856	6,627
1985	4,996	889	5,885
1986	3,716	889	4,605
1987	5,945	644	6,589

1/ Value of farm products consumed directly in farm households where produced.

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

COMMODITY CREDIT CORPORATION LOANS: Arizona, 1983-87

Year	Net loans 1/	Loans Liquidated 2/
	1,000 dollars	
1983	-21,870	9,940
1984	-62,058	10,570
1985	89,682	2,149
1986	-13,733	3,071
1987	-22,754	1,929

1/ Loans made minus loans repaid.

2/ Loans acquired by Commodity Credit Corporation plus loans charged off.

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

FARM INCOME INDICATORS: Arizona, 1983-87

Item	1983	1984	1985	1986	1987
			Million dollars		
Gross farm income 1/	1,717.0	2,055.9	1,830.5	1,749.8	2,065.2
Cash income	1,785.8	1,895.8	1,685.6	1,774.5	1,969.4
Farm marketings	1,586.2	1,705.0	1,515.4	1,614.4	1,780.8
Crops	841.3	951.9	822.4	918.2	1,006.7
Livestock and products	744.9	753.1	693.0	696.1	774.1
Government payments	102.9	118.4	95.3	83.6	97.3
Other farm income	96.6	72.4	74.9	76.6	91.3
Machine hire/customwork	6.6	7.8	10.8	6.9	10.7
Other farm-related income 2/	90.0	64.6	64.2	69.6	80.6
Noncash income	90.0	93.8	91.2	78.5	84.2
Value of home consumption	5.5	6.6	5.9	4.6	6.6
Rental value of dwellings	84.5	87.2	85.3	73.9	77.6
Operators dwellings	81.3	84.1	82.6	71.4	75.1
Hired laborers dwellings	3.2	3.1	2.8	2.5	2.5
Value of inventory adjustment	-158.7	66.2	53.7	103.2	11.6
Total production expenses 1/	1,548.9	1,578.3	1,486.9	1,349.6	1,464.6
Intermediate product expenses	935.7	942.7	865.0	762.0	847.6
Farm origin	485.5	478.3	415.7	354.3	427.0
Feed purchased	293.8	286.2	250.1	207.0	240.1
Livestock and poultry purchased	178.8	177.1	151.1	134.4	174.0
Seed purchased	12.9	14.9	14.5	12.9	13.0
Manufactured inputs	215.3	222.4	217.7	181.1	187.9
Fertilizer and lime	47.7	48.6	45.6	35.2	32.8
Pesticides	58.2	66.8	70.0	62.8	64.3
Fuel and oil	59.6	56.8	52.3	38.1	35.3
Electricity	49.7	50.2	49.8	45.0	55.5
Other	234.9	242.1	231.6	226.6	232.7
Repair and maintenance	38.0	36.9	37.9	40.9	39.5
Other miscellaneous 3/	197.0	205.3	193.7	185.7	193.3
Interest	184.3	182.1	181.4	165.6	168.5
Real estate	62.5	63.4	65.0	60.0	58.1
Nonreal estate	121.8	118.7	116.5	105.6	110.4
Contract and hired labor expenses	190.9	192.0	192.9	194.8	211.7
Cash labor expenses 4/	181.4	181.9	183.8	187.0	202.3
Perquisites	9.5	10.1	9.1	7.7	9.4
Net rent to nonoperator landlords 5/	29.1	46.6	36.6	31.3	43.4
Capital consumption	181.3	187.5	180.0	164.9	165.2
Property taxes	27.8	27.3	30.9	31.1	28.3
NET FARM INCOME	168.1	477.6	343.6	400.2	600.5
Cash income 6/	1,785.8	1,895.8	1,685.6	1,774.5	1,969.4
Cash expenses 6/	1,339.5	1,361.8	1,282.4	1,158.3	1,275.5
Intermediate product expenses	925.9	932.7	854.5	750.4	837.6
Interest	177.6	175.5	178.7	161.0	166.1
Cash labor expenses 4/	181.4	181.9	183.8	187.0	202.3
Net rent to nonoperator landlords 5/	29.1	46.6	36.6	31.3	43.4
Property taxes	25.5	25.1	28.7	28.7	26.1
NET CASH INCOME	446.2	534.0	403.2	616.2	693.9
Cash income	1,785.8	1,895.8	1,685.6	1,774.5	1,969.4
Cash expenses	1,339.5	1,361.8	1,282.4	1,158.3	1,275.5
Capital consumption	152.1	157.8	154.0	138.7	144.0
NET BUSINESS INCOME 7/	294.1	376.2	249.2	477.5	549.9
Gross receipts of farms 8/	1,635.7	1,971.8	1,748.0	1,670.4	1,990.1
Nonfactor payments 6/	1,103.6	1,115.6	1,037.2	917.7	1,007.7
Intermediate product expenses	925.9	932.7	854.5	750.4	837.6
Capital consumption	152.1	157.8	154.0	138.7	144.0
Property taxes	25.5	25.1	28.5	28.7	26.1
Factor payments 6/	532.1	856.2	710.7	760.7	982.3
Interest	177.6	175.5	178.7	161.0	166.1
Contract and hired labor expenses	190.9	192.0	192.9	194.8	211.7
Net rent to nonoperator landlords 5/	29.1	46.6	36.6	31.3	43.4
RETURNS TO OPERATORS 9/	134.5	442.1	302.5	373.7	561.1
Off-farm income 10/	209.9	220.7	241.5	253.1	265.1

1/ Includes operator dwellings. 2/ Includes forest product sales, recreational income, and other farm business-related income. Estimates for 1983 and later include income from custom feeding services. 3/ Includes machine hire and customwork expenses; marketing, storage, and transportation expenses; and miscellaneous expenses. 4/ Includes contract labor expenses, hired labor wages, and Social Security payments. 5/ Uses different data sources for periods before 1983 and 1984 and later. Estimates are not directly compatible among periods. 6/ Excludes operator dwellings. 7/ Cash income less cash expenses and capital consumption. 8/ Gross farm income less rental value of operator dwellings. 9/ Gross receipts of farms less nonfactor payments, interest, contract and hired labor expenses, and net rent to nonoperator landlords. 10/ Includes off-farm income for member of farm operators' family.

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

CASH RECEIPTS

Cash receipts are computed as marketing volume times price and are usually reported on a calendar-year basis. Marketings can come from current production or from storage of past year's crop (assuming a crop is storable, like potatoes). Thus, the quantity available for sale (marketings), can be thought of as coming from current production less shrinkage and the amount used on farms for food, feed, and seed plus change in stored quantity (inventory). On the other hand, value of production, which is generally reported as a crop-year statistic, is computed as production times average price. The difference between value of production and cash receipts is usually only important to those commodities which can be stored and thus have a specific marketing pattern which extends through time from the date of harvest.

CASH RECEIPTS FROM AGRICULTURAL MARKETINGS AND GOVERNMENT PAYMENTS: Arizona, 1983-88

Commodity Group	1983	1984	1985	1986	1987	1988 1/
				1,000 dollars		
Cotton lint	375,372	355,824	254,264	325,912	318,999	
Cottonseed	32,452	32,470	25,521	19,886	20,038	
Hay	81,119	92,153	75,039	72,790	90,674	
Wheat	48,229	46,986	32,721	31,174	22,591	
Barley	6,500	13,725	15,403	6,875	4,446	
Corn	6,099	7,899	5,874	4,335	2,682	
Sorghum grain	3,417	3,082	3,270	1,846	1,309	
Lettuce	84,682	106,300	109,911	125,204	156,042	
Cauliflower	12,250	16,514	19,345	20,498	21,920	
Potatoes	8,404	14,812	11,982	9,256	9,256	
Cantaloups	2/	18,476	13,514	24,602	15,159	
Watermelons	2/	6,341	6,714	8,586	7,290	
Onions	5,287	7,366	5,386	5,795	11,993	
Broccoli	1,458	2,772	4,620	5,474	8,328	
Honeydews	4,284	5,890	4,235	5,555	5,462	
Carrots	5,370	5,580	3,742	4,316	4,240	
Other miscellaneous vegetables	66,108	27,495	38,723	47,430	46,687	
Grapefruit	6,090	13,150	16,659	11,689	9,843	
Oranges	12,342	16,766	19,196	12,988	11,094	
Lemons	19,123	23,856	38,473	21,106	26,876	
Tangerines	1,832	9,074	10,030	4,996	10,437	
Grapes	15,267	18,261	17,851	25,070	21,279	
Other miscellaneous fruits and nuts	15,065	16,067	15,125	24,152	19,893	
All other crops 3/	30,550	91,025	74,819	98,706	160,122	
TOTAL ALL CROPS	841,300	951,884	822,417	918,241	1,006,660	1,198,023
Cattle and calves	495,648	504,388	433,662	423,085	483,269	
Hogs	31,963	28,551	27,462	33,129	33,232	
Sheep and lambs	7,443	7,510	6,884	5,554	10,369	
Dairy products	171,252	168,166	175,754	172,847	182,528	
Eggs	4,628	5,266	4,373	5,344	3,348	
Chickens	77	62	44	68	161	
Honey	2/	2,240	2,382	2,002	1,818	
Wool	912	1,029	982	1,089	1,332	
Other livestock and products	32,979	35,935	41,437	53,021	58,053	
TOTAL ALL LIVESTOCK AND PRODUCTS	744,902	753,147	692,980	696,139	774,110	777,611
TOTAL ALL COMMODITIES	1,586,202	1,705,031	1,515,397	1,614,380	1,780,770	1,975,634
GOVERNMENT PAYMENTS	102,924	118,385	95,292	83,565	97,338	
TOTAL CASH RECEIPTS	1,689,126	1,823,416	1,610,689	1,697,945	1,878,108	

1/ Only crop and livestock totals available.

2/ Not available.

3/ Includes miscellaneous field crops, seed crops, and greenhouse/nursery.

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

CASH RECEIPTS FROM AGRICULTURAL MARKETINGS: Total crops and livestock, Arizona, by counties, 1983-87

County	1983	1984	1985	1986	1987
			1,000 dollars		
Apache	22,889	23,665	18,718	22,912	24,286
Cochise	59,417	50,955	45,545	52,203	54,305
Coconino	18,455	24,970	22,875	31,598	35,847
Gila	9,237	7,964	5,943	8,287	14,218
Graham	41,836	37,420	31,032	39,431	37,870
Greenlee	8,439	7,807	4,922	6,152	4,571
La Paz 1/	70,214	78,847	60,186	55,268	65,051
Maricopa	649,558	710,288	623,252	674,357	723,649
Mohave	24,792	21,805	17,882	16,196	15,291
Navajo	32,701	31,438	27,248	38,037	44,650
Pima	46,202	57,783	43,507	48,387	49,610
Pinal	273,562	297,195	241,876	275,706	284,053
Santa Cruz	6,648	7,523	7,127	8,177	12,412
Yavapai	26,924	31,165	26,653	32,238	36,890
Yuma	295,345	316,201	338,631	305,431	378,067
Arizona	1,586,202	1,705,031	1,515,397	1,614,380	1,780,770

1/ La Paz County created from Yuma County in 1983.

CASH RECEIPTS FROM AGRICULTURAL MARKETINGS: Crops, Arizona, by counties, 1983-87

County	1983	1984	1985	1986	1987
			1,000 dollars		
Apache	3,006	2,884	2,433	1,711	1,514
Cochise	34,028	28,362	24,970	29,308	25,850
Coconino	661	678	542	2,009	1,595
Gila	620	591	389	319	243
Graham	21,447	20,001	5,828	22,115	16,887
Greenlee	1,848	1,521	825	1,381	1,080
La Paz 1/	67,321	77,057	59,337	54,467	62,967
Maricopa	343,669	400,375	331,160	384,589	436,777
Mohave	9,842	9,011	5,532	6,336	5,961
Navajo	3,716	3,259	1,501	1,810	1,544
Pima	19,324	30,623	22,152	21,988	18,689
Pinal	142,151	154,283	119,857	153,418	142,597
Santa Cruz	905	523	262	345	1,978
Yavapai	3,017	2,326	2,028	2,161	2,252
Yuma	189,745	220,430	235,601	236,284	286,726
Arizona	841,300	951,884	822,417	918,241	1,006,660

1/ La Paz County created from Yuma County in 1983.

CASH RECEIPTS FROM AGRICULTURAL MARKETINGS: Livestock and livestock products, Arizona, by counties, 1983-87

County	1983	1984	1985	1986	1987
			1,000 dollars		
Apache	19,883	20,821	16,285	21,201	22,772
Cochise	25,389	22,593	20,575	22,895	28,455
Coconino	17,794	24,292	22,333	29,589	34,252
Gila	8,617	7,373	5,554	7,968	13,975
Graham	20,389	17,419	15,204	17,316	20,983
Greenlee	6,591	6,286	4,097	4,771	3,491
La Paz 1/	2,893	1,790	849	801	2,084
Maricopa	305,889	309,913	292,092	289,768	286,872
Mohave	14,950	12,794	12,350	9,860	9,330
Navajo	28,895	28,179	25,747	36,227	43,106
Pima	26,878	27,165	21,355	26,399	30,921
Pinal	131,411	142,912	122,019	122,288	141,456
Santa Cruz	5,743	7,000	6,865	7,832	10,434
Yavapai	23,907	28,839	24,625	30,077	34,638
Yuma	105,583	95,771	103,030	69,147	91,341
Arizona	744,902	753,147	692,980	696,139	774,110

1/ La Paz County created from Yuma County in 1983.

GOVERNMENT PAYMENTS: By program, Arizona, 1983-87

Year	Conservation 1/	Feed grain program	Wheat program	Cotton program	Wool act program	Miscellaneous programs 2/	Total
				1,000 dollars			
1983	1,520	638	1,113	42,188	1,183	56,282	102,924
1984	6,256	702	3,311	11,655	1,792	94,669	118,385
1985	2,124	1,406	2,861	81,953	1,587	5,361	95,292
1986	1,385	2,606	4,290	65,949	2,096	7,239	83,565
1987	5,028	1,574	6,185	78,973	2,588	2,990	97,338

1/ Includes amount paid under agriculture and conservation programs (Agriculture Conservation, Emergency Conservation, and Drought and Flood Conservation).

2/ Includes Dairy Indemnity Program, Payment-In-Kind Program, Rural Clean Water Program, Clean Lakes Program, Forest Incentive Program, Water Bank Program, Emergency Livestock Feed Program, Extended Storage Program, Milk Diversion Program, and Animal and Plant Health Inspection Service Indemnity Program.

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

RANKING OF STATES PRODUCING MAJOR ARIZONA COMMODITIES: Based on production 1987-88

Commodity	First		Second		Third		Fourth		Fifth		Arizona		Number of states in estimating program
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	
All cotton	TX	TX	CA	CA	MS	MS	AZ	AZ	LA	AR	4	4	17
Upland cotton	TX	TX	CA	CA	MS	MS	LA	AR	AR	LA	6	6	17
American-Pima cotton	AZ	AZ	TX	TX	NM	NM	--	CA			1	1	4
Cottonseed	TX	TX	CA	CA	MS	MS	AZ	AZ	LA	AR	4	4	17
All hay	CA	CA	WI	MN	TX	IA	MN	NB	SD	TX	31	31	48
Alfalfa hay	WI	CA	CA	IA	MN	MN	IA	WI	SD	NB	23	21	43
All other hay	TX	TX	MO	MO	KY	KY	OK	KS	KS	OK	44	45	48
All wheat	KS	KS	ND	OK	MT	WA	OK	ND	WA	TX	31	31	42
Durum wheat	ND	ND	MT	CA	CA	AZ	AZ	MO	SD	MN	4	3	6
Winter wheat	KS	KS	OK	OK	WA	WA	TX	TX	CO	MO	33	34	42
Barley	ND	ID	MT	ND	ID	WA	MN	MT	WA	MN	22	21	28
Corn for grain	IA	IA	IL	NE	NE	IL	MN	IN	IN	MN	40	40	41
Sorghum for grain	KS	KS	TX	TX	NE	NE	MO	MO	AR	AR	19	19	20
Fresh market vegetables	CA	CA	FL	FL	AZ	AZ	OR	TX	TX	OR	3	3	31
Lettuce	CA	CA	AZ	AZ	FL	FL	CO	CO	NM	NM	2	2	13
~~Dry onions~~	CA	CA	OR	OR	CO	CO	ID	TX	TX	ID	10	11	14
Broccoli	CA	CA	TX	TX	AZ	AZ	OR	OR			3	3	4
Carrots	CA	CA	WA	WA	TX	TX	MI	MI	WI	FL	11	11	13
Cauliflower	CA	CA	AZ	AZ	OR	OR	NY	NY	MI	TX	2	2	6
Honeydews	CA	CA	TX	TX	AZ	AZ					3	3	3
Potatoes	ID	ID	WA	WA	OR	ME	ME	OR	ND	CO	27	24	37
All oranges	FL	FL	CA	CA	AZ	AZ	TX	TX			3	3	4
Grapefruit	FL	FL	CA	CA	AZ	TX	TX	AZ			3	4	4
Lemons	CA	CA	AZ	AZ							2	2	2
Tangerines	FL	FL	CA	CA	AZ	AZ					3	3	3
All grapes	CA	CA	WA	WA	NY	NY	PA	PA	MI	MI	6	6	12
All cattle and calves 1/	TX	TX	KS	KS	NE	NE	OK	OK	CA	IA	34	34	50
Cattle on feed 1/	TX	TX	NE	NE	KS	KS	CO	CO	IA	IA	8	10	13
Milk production	WI	WI	CA	CA	NY	NY	MN	MN	PA	PA	24	23	50
Sheep and lambs 1/	TX	TX	CA	CA	WY	WY	CO	CO	SD	SD	12	12	41
Hogs and pigs 2/	IA	IA	IL	IL	IN	MN	MN	IN	NE	NE	29	29	50
Chickens 2/ 3/	CA	CA	IN	IN	GA	PA	AR	GA	OH	OH	43	43	50

1/ January 1 following year inventory.

2/ December 1 inventory.

3/ Average number of hens and pullets of laying age, excluding commercial broilers.

CROP SUMMARY: Acreage harvested, production, and value, Arizona and United States, 1986-88

Crop	Acres harvested			Production				Value		
	1986	1987	1988	Unit	1986	1987	1988	1986	1987	1988
		1,000 acres				Thousands			1,000 Dollars	
ARIZONA										
Barley	29	22	13	Tons	70	52	32	7,163	4,770	3,177
Corn for grain	24	20	17	Tons	74	56	62	6,204	4,580	6,962
Corn for silage	13	9	7	Tons	325	207	189	5,850	4,140	3,780
Upland Cotton	249.0	289.0	349.0	Bales	675.0	849.0	865.0	175,932	267,741	230,436
American-Pima Cotton	73.8	90.8	128.0	Bales	148.3	213.0	241.0	63,496	106,330	134,189
All Cotton	322.8	379.8	477.0	Bales	823.3	1,062.0	1,120.0	239,428	374,071	364,625
Cottonseed				Tons	309.0	390.0	433.0	29,355	37,245	55,857
Alfalfa Hay	155	160	155	Tons	1,178	1,248	1,225	1/		
Other Hay	22	30	25	Tons	84	135	100	1/		
All hay	177	190	180	Tons	1,262	1,383	1,325	88,971	112,715	120,575
Sorghum for grain	12	11	4	Tons	29	28	11	2,401	2,317	1,232
Sorghum for silage	3	3	1	Tons	57	54	17	912	1,080	306
Durum Wheat	48	45	50	Tons	125	115	129	15,368	12,317	16,770
Other Wheat	48	44	35	Tons	136	125	103	13,987	12,080	13,377
All wheat	96	89	85	Tons	261	240	232	29,355	24,397	30,147
Broccoli 2/	2.9	4.2	4.3	Cwt.	238	382	391	5,474	8,328	9,697
Carrots 2/	2.4	2.0	1.9	Cwt.	396	400	238	4,316	4,240	2,428
Cauliflower 2/	6.1	6.4	6.1	Cwt.	702	800	641	20,498	21,920	19,935
Honeydews	2.8	3.4	2.4	Cwt.	448	459	420	5,555	5,462	7,266
Other lettuce	6.3	5.7	7.0	Cwt.	1,544	1,140	1,575	19,146	22,458	17,325
Western lettuce 2/	32.1	35.2	42.0	Cwt.	8,988	11,616	11,970	106,058	133,584	304,038
Dry onions	1.2	1.3	1.2	Cwt.	660	585	450	5,795	11,993	3,398
Potatoes	5.9	4.9	5.3	Cwt.	1,298	1,348	1,246	9,475	14,154	11,650
Grapefruit 2/	5.7	5.9	6.0	Ctn.	4,800	4,400	3,000	11,589	11,126	6,760
Lemons 2/	16.5	15.5	15.5	Ctn.	6,500	14,200	7,300	48,844	29,186	31,418
Oranges 2/	11.0	10.9	10.6	Ctn.	4,600	5,400	3,620	15,746	16,735	14,873
Tangerines 2/	3.3	3.2	3.5	Ctn.	1,400	1,400	900	8,293	8,571	6,838
Grapes	6.3	7.1	6.7	Ton	23.0	31.0	25.5	25,070	21,279	29,913
UNITED STATES										
Barley	12,007	10,057	7,535	Tons	14,653	12,709	6,972	993,905	982,285	790,295
Corn for grain	69,159	59,208	58,164	Tons	230,996	198,018	137,793	12,541,426	13,984,764	13,011,192
Corn for silage	6,274	5,829	8,295	Tons	88,660	84,468	78,925	1/		
Upland Cotton	8,357.3	9,898.7	11,754.1	Bales	9,525.2	14,475.3	15,077.3	2,360,228	4,413,034	3,917,093
American-Pima Cotton	111.1	136.6	189.1	Bales	205.9	284.6	334.2	88,883	141,983	185,257
All cotton	8,468.4	10,035.3	11,943.2	Bales	9,731.1	14,759.9	15,411.5	2,449,111	4,555,017	4,102,350
Cottonseed				Tons	3,800.9	5,769.2	6,061.8	303,965	474,703	718,255
Alfalfa Hay	26,793	25,535	26,695	Tons	91,552	84,794	69,282	1/		
Other Hay	35,626	35,213	38,864	Tons	63,977	64,508	57,535	1/		
All hay	62,419	60,748	65,559	Tons	155,529	149,302	126,817	8,610,996	8,969,074	10,640,068
Sorghum for grain	13,869	10,604	9,052	Tons	26,267	20,699	16,171	1,322,196	1,192,923	1,361,613
Sorghum for silage	500	424	548	Tons	5,898	5,157	5,447	1/		
Durum Wheat	2,877	3,279	2,847	Tons	2,937	2,779	1,345	271,276	312,553	218,825
Other Spring Wheat	14,641	13,334	10,542	Tons	14,167	13,491	6,164	1,189,733	1,222,989	786,974
Winter Wheat	43,205	39,347	39,785	Tons	45,645	52,173	52,032	3,583,338	3,961,286	5,627,206
All wheat	60,723	55,960	53,174	Tons	62,749	63,224	54,338	5,044,347	5,496,828	6,632,806
Broccoli	119.1	120.2	114.4	Cwt.	11,529	11,432	12,793	239,739	238,846	292,264
Carrots	86.1	100.1	97.7	Cwt.	31,074	38,485	32,501	334,617	351,362	344,466
Cauliflower	67.8	66.1	62.8	Cwt.	7,527	7,375	7,874	191,863	187,555	202,378
Honeydews	28.8	28.6	31.2	Cwt.	5,438	4,811	5,241	69,132	69,293	75,341
All lettuce	216.0	228.9	236.1	Cwt.	63,715	67,972	71,024	755,604	1,000,461	1,043,523
Dry onions	115.3	123.7	132.2	Cwt.	43,301	45,867	48,264	427,669	511,090	426,293
Potatoes	1,219.6	1,279.3	1,242.9	Cwt.	361,511	385,462	349,973	1,808,483	1,656,797	1,918,704
Grapefruit 2/	145.2	146.1	147.4	Ctn.	114,940	126,450	136,100	340,012	412,234	471,558
Lemons 2/	65.3	64.4	64.4	Ctn.	36,700	57,200	41,300	219,270	182,076	202,864
Oranges 2/	561.6	567.6	574.6	Ctn.	351,420	362,350	400,080	1,092,225	1,322,623	1,701,479
Tangerines 2/	20.6	19.3	19.3	Ctn.	8,900	10,540	9,980	58,979	67,290	78,197
Grapes	770.7	763.7	755.2	Tons	5,225.9	5,264.0	5,986.0	1,180,182	1,358,052	1,501,936

1/ Not available. 2/ Crop season.

LIVESTOCK SUMMARY: Inventory and value, Arizona and United States, 1985-89

Specie and class	Inventory 1/					Value 2/				
	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
			1,000 Head					1,000 Dollars		
ARIZONA										
CATTLE AND CALVES 3/	1,050	1,050	1,000	960	880	414,750	393,750	385,000	480,000	497,200
Beef cows that have calved	272	293	268	260	263					
Milk cows that have calved	83	88	87	90	92					
Beef cow replacement heifers	37	47	54	51	49					
Milk cow replacement heifers	18	21	20	19	20					
Other heifers 500 pounds and over	10	10	18	14	12					
Steers 500 pounds and over	350	306	285	299	262					
Bulls 500 pounds and over	30	31	30	27	26					
Calves under 530 pounds	250	254	238	200	156					
Cattle on feed 4/	419	344	343	351	275					
HOGS 5/	170	175	155	130	130	15,640	13,913	17,360	12,155	9,750
Breeding hogs	20	20	18	14	15					
Market hogs	150	155	137	116	115					
Under 60 pounds	51	55	39	34	44					
60-119 pounds	40	45	37	30	27					
120-179 pounds	31	34	37	29	23					
180 pounds and over	28	21	24	23	21					
SHEEP AND LAMBS 3/	266	278	283	284	284	16,492	18,487	19,244	25,418	25,560
Stock sheep	232	246	219	237	239					
Ewes one year or older	148	161	144	180	185					
Rams & wethers one year or older	11	14	11	12	9					
Ewe lambs	48	44	41	28	26					
Wether and ram lambs	25	27	23	17	19					
Sheep and lambs on feed	34	32	64	47	45					
GOATS 3/ 6/										
Angora goats					100					5,500
CHICKENS 5/	490	460	528	385	310	980	713	1,188	616	496
Hens and pullets of laying age	462	380	480	370	300					
UNITED STATES										
CATTLE AND CALVES 3/	109,749	105,468	102,000	99,524	99,484	44,138,618	41,279,749	41,482,765	52,045,643	60,394,509
Beef cows that have calved	35,370	33,633	33,779	33,112	33,669					
Milk cows that have calved	10,805	11,177	10,502	10,298	10,217					
Beef cow replacement heifers	5,542	5,149	5,164	5,227	5,505					
Milk cow replacement heifers	4,760	4,761	4,331	4,116	4,199					
Other heifers 500 pounds and over	8,056	8,090	7,561	7,805	7,627					
Steers 500 pounds and over	16,369	15,967	15,304	15,732	15,798					
Bulls 500 pounds and over	-2,411	2,261	2,204	2,163	2,221					
Calves under 500 pounds	26,436	24,431	23,154	21,070	20,248					
Cattle on feed 4/	12,458	11,497	10,963	11,527	11,160					
HOGS 5/	54,073	52,313	50,920	54,620	55,299	4,055,724	3,640,368	4,679,398	4,158,300	3,665,069
Breeding hogs	6,933	6,783	6,671	7,153	7,040					
Market hogs	47,140	45,530	44,250	47,467	48,259					
Under 60 pounds	18,071	17,301	16,756	17,764	17,875					
60-119 pounds	12,013	11,700	11,228	11,979	12,399					
120-179 pounds	9,610	9,320	9,106	9,702	10,016					
180 pounds and over	7,446	7,210	7,159	8,022	7,969					
SHEEP AND LAMBS 3/	10,443	9,983	10,334	10,784	10,802	637,873	673,048	782,108	970,484	889,765
Stock sheep	8,847	8,491	8,826	9,140	9,189					
Ewes one year or older	7,233	6,817	6,847	7,192	7,173					
Rams & wethers one year or older	314	310	320	335	333					
Ewe lambs	1,016	1,048	1,296	1,282	1,338					
Wether and ram lambs	284	318	363	332	345					
Sheep and lambs on feed	1,596	1,492	1,508	1,644	1,613					
GOATS 3/ 6/										
Angora goats					1,820					102,030
CHICKENS 5/	374,008	368,548	369,131	377,727	355,489	754,312	700,150	690,818	706,131	725,016
Hens and pullets of laying age	285,848	279,769	279,940	285,764	275,352					

1/ Totals may not add due to rounding. 2/ Annual average value published only for the total inventory number. 3/ Estimates are based on January 1 of the current year. 4/ Total cattle on feed included in other classes. 5/ Estimates are based on December 1 of the previous year. 6/ Estimates for Arizona, Michigan, New Mexico, and Oklahoma started in January 1989. U.S. totals prior to 1989 were for Texas only.

CROP RECORDS: Acreage, yield, and production, Arizona

Crop	Date series began	Record	Acreage		Yield			Production		
			Harvested	Year 1/	Unit	Per Acre	Year 1/	Unit	Total	Year 1/
			1,000 acres						Thousands	
All Cotton	1912	High	690.0	1953	Pounds	1,342.0	1987	Bales	1,609.7	1981
		Low	0.4	1912		212.0	1920		0.3	1912
Upland Cotton	1917	High	648.5	1953	Pounds	1,410.0	1987	Bales	1,556.0	1981
		Low	8.0	1917		228.0	1922		7.1	1917
American-Pima Cotton	1912	High	200.0	1920	Pounds	1,126.0	1987	Bales	241.0	1988
		Low	0.3	1947		180.0	1943		0.2	1947
Cottonseed	1917	High						Tons	631	1981
		Low							10	1917
All Hay	1909	High	332	1944	Tons	7.36	1988	Tons	1,438	1973
		Low	98	1909		1.97	1940		237	1909
Alfalfa Hay	1919	High	237	1944	Tons	7.90	1988	Tons	1,348	1973
		Low	82	1920		2.20	1940		238	1920
All Wheat	1909	High	431	1976	Pounds	5,590	1983	Tons	970	1976
		Low	15	1954		870	1941		9	1910
Durum Wheat	1976	High	319	1976	Pounds	5,400	1984	Tons	718	1976
		Low	46	1985		4,200	1978		115	1987
Other Wheat	1964	High	260	1975	Pounds	5,880	1988	Tons	546	1975
		Low	23	1966		2,400	1966		28	1966
Barley	1909	High	268	1954	Pounds	4,990	1988	Tons	334	1954
		Low	8	1928		1,200	1922		6	1928
Corn for Grain	1919	High	50	1978	Pounds	7,620	1983	Tons	161	1978
		Low	9	1973		520	1944		6	1924
Corn for Silage	1919	High	18	1978	Tons	27.0	1988	Tons	360	1978
		Low	2	1934		5.0	1936		10	1934
Sorghum for Grain	1919	High	246	1967	Pounds	5,600	1988	Tons	558	1967
		Low	4	1988		1,180	1925		7	1925
Sorghum for Silage	1929	High	50	1957	Tons	24.0	1985	Tons	700	1957
		Low	1	1988		9.0	1936		17	1988
Potatoes	1899	High	12.8	1969	Cwt.	305.0	1984	Cwt.	2,944	1969
		Low	1.0	1912		18.0	1900		18	1900
All Oranges	1919/20	High						Cartons	10,520	1968/69
		Low							108	1927/28
Navel Oranges	1934/35	High						Cartons	2,300	1968/69
		Low							194	1934/35
Valencia Oranges	1934/35	High						Cartons	8,220	1968/69
		Low							146	1936/37
Grapefruit	1919/20	High						Cartons	8,200	1946/47
		Low							58	1919/20
Lemons	1958/59	High						Cartons	14,400	1974/75
		Low							680	1958/59
Tangerines	1964/65	High						Cartons	2,300	1983/84
		Low							280	1964/65
All Grapes	1909	High						Tons	31,000	1987
		Low							250	1920

1/ These are the latest years that records were achieved. In some cases these records were equaled in several earlier years.

FIELD CROPS

HIGHLIGHTS - 1988 CROP YEAR

Arizona farmers and ranchers experienced fairly normal growing conditions during the 1988 crop season although there were some weather related problems early in the year. Wet conditions in January were followed by cool air and low soil temperatures into mid-April. In turn, planting of cotton was delayed and in some instances replanting occurred putting the already late crop further behind. Final cotton yields did come in at lower levels than the previous year's record numbers, however, record yields were realized for alfalfa hay, wheat other than durum, corn for silage, and grain sorghum. The "monsoons" arrived as usual in August but did little except some damage to late cuttings of the state's hay crops. The following provides a brief summary of the year's field activities for the principle field crops grown in Arizona.

COTTON ACREAGE UP - PRODUCTION DOWN

Expectations were running high as cotton producers across the state began preparing for another long growing season. Many growers had increased their acreage in anticipation of a good market although they would soon find they would not realize the record yields of a year earlier. Stalk shredding and plowdown was underway by early January as some producers were still completing some late harvest of the previous year's crop. Land preparation was underway by the end of January in the western part of the state with fields being furrowed and pre-irrigated by early February. Wet fields and low soil temperatures slowed preparations during February with only limited plantings occurring by the third week of the month. Planting became very active by mid-March in the west and was just getting underway in central and eastern producing regions. Heavy rains the end of April slowed plantings significantly and forced some producers to replant. Regardless, nearly half of the state's acreage was squaring by the end of May and some fields in the west were setting bolls by the first of June. Warm, sometimes hot, weather returned to advance the crop by the end of June. With July being the hottest July on record, producers were once again encouraged about the crop's prospects although progress remained slightly behind normal. However, final yields were lowered significantly due to higher than normal nighttime low temperatures during July and August. Bolls began opening by the first of August and harvest was underway in Yuma County by the third week of the month. Torrential rains virtually halted cotton harvest during the middle of October, but the activity regained momentum during November and was basically finished, except in the eastern areas, by the end of December.

ALL WHEAT ACREAGE DOWN

Although, all wheat acreage showed a decline in Arizona for the 1988 crop season, Durum wheat acreage and production was up. Once again the weather in the early part of the year had growers concerned about the prospects for a normal crop. During early January, low soil temperatures slowed germination, however, seedings continued and the crop was virtually planted by early February except for portions of eastern Arizona. Most of the state's stands were established by mid-February and the acreage in the west had begun reaching the jointing stage. Spraying for Russian wheat aphids was active in March with little or no other insect or disease problems reported statewide. Nearly half of the state's acreage was heading by mid-April and harvest was underway by the end of the first week of May. Harvest was very active during the month of June and was all but complete by the second of July. Seedbed preparation was underway for the 1989 crop by the first part of November and planting began by the third week of the month.

CORN AND SORGHUM ACREAGE DOWN

The state's corn planted acreage was at the lowest level in 1988 since the 1975 crop season, while sorghum planted acreage posted the lowest level since records began in 1924. The state's corn acreage was planted primarily in the month's of March and April with the largest grain acreage planted as usual in the Cochise County area. Most of the corn planted in central Arizona is cut for silage and fed at the local dairies. Much of the state's limited sorghum acreage for 1988 was planted in La Paz, Maricopa, and Pinal counties and was all planted by mid-May. Cutting of the state's corn silage crop was underway in Maricopa County by the first of August while grain harvest continued later in the month. This apparent decline in the production of grains in the state of Arizona can primarily be attributed to the decline in the cattle feeding business and the increased shipment of out of state grain into Arizona. Sorghum county estimates were discontinued for the 1988 crop season due to the small acreage involved and the risk of disclosing individual operations.

ALFALFA YIELDS POST RECORD HIGH

In 1988, Arizona farmers and ranchers collectively recorded the highest yield ever for alfalfa production in the state. Suprisingly, this was after record cold temperatures damaged the crop in the Yuma area in early January. In turn, stand renovation and early harvest were fairly light throughout the early part of the year. However, sheeping off was moderate to heavy in Yuma and Pinal counties. Growers began baling in western areas by the end of February as curing conditions remained favorable until the April rains arrived. Curing conditions deteriorated through the first part of May with below normal temperatures and wet fields, but growers had begun their third cuttings by the third week of May. As normal weather returned during the summer months, growers began to realize tneir record yields. As drought conditions persisted in other hay producing regions of the country, Arizona producers began to ship surplus supplies primarily to the Mid-west. Harvest of the state's alfalfa crop had slowed significantly by the end of October but warmer weather in November did allow some growers to glean additional cuttings.

UPLAND COTTON: Acreage, yield, and production, Arizona, by counties, 1984-88 1/

County and year	Planted	Harvested	Yield per harvested acre	Production	County and year	Planted	Harvested	Yield per harvested acre	Production
	Acres		Lbs.	Bales		Acres		Lbs.	Bales
APACHE					COCHISE				
1984	0				1984	16,700	16,600	671	23,200
1985	0				1985	15,000	15,000	784	24,500
1986	0				1986	11,100	11,000	877	20,100
1987	0				1987	12,900	12,800	821	21,900
1988	0				1988	17,500	17,400	745	27,000
COCONINO					GILA				
1984	0				1984	0			
1985	0				1985	0			
1986	0				1986	0			
1987	0				1987	0			
1988	0				1988	0			
GRAHAM					GREENLEE				
1984	12,000	12,000	828	20,700	1984	1,020	1,020	871	1,850
1985	10,600	10,600	860	19,000	1985	800	800	870	1,450
1986	8,800	8,800	1,036	19,000	1986	800	800	960	1,600
1987	9,000	8,900	1,014	18,800	1987	900	900	907	1,700
1988	10,000	9,900	1,149	23,700	1988	1,100	1,100	873	2,000
LA PAZ					MARICOPA				
1984	34,300	34,300	1,122	80,200	1984	186,000	185,300	1,300	502,000
1985	28,500	28,500	1,196	71,000	1985	152,000	151,400	1,297	409,100
1986	16,800	16,800	1,366	47,800	1986	102,600	102,400	1,331	284,000
1987	23,600	23,600	1,379	67,800	1987	119,800	119,600	1,468	365,800
1988	30,300	30,200	1,256	79,000	1988	148,400	148,200	1,181	364,500
MOHAVE					NAVAJO				
1984	5,680	5,680	883	10,450	1984	0			
1985	3,600	3,600	1,000	7,500	1985	0			
1986	4,100	4,100	1,124	9,600	1986	0			
1987	4,500	4,500	1,301	12,200	1987	0			
1988	5,200	5,200	1,071	11,600	1988	0			
PIMA					PINAL				
1984	15,500	15,300	1,089	34,700	1984	120,200	120,200	1,306	327,000
1985	13,000	13,000	947	25,650	1985	107,000	106,700	1,310	291,200
1986	7,800	7,600	1,137	18,000	1986	78,600	78,400	1,356	221,500
1987	8,600	8,500	1,203	21,300	1987	83,500	83,200	1,477	256,000
1988	9,600	9,400	1,123	22,000	1988	98,300	98,200	1,262	258,200
SANTA CRUZ					YAVAPAI				
1984	0				1984	0			
1985	0				1985	0			
1986	0				1986	0			
1987	0				1987	0			
1988	2/				1988	0			
YUMA					ARIZONA				
1984	38,600	38,600	1,205	96,900	1984	430,000	429,000	1,227	1,097,000
1985	29,500	29,400	1,283	78,600	1985	360,000	359,000	1,241	928,000
1986	19,400	19,100	1,342	53,400	1986	250,000	249,000	1,301	675,000
1987	27,200	27,000	1,484	83,500	1987	290,000	289,000	1,410	849,000
1988	29,600	29,400	1,257	77,000	1988	350,000	349,000	1,190	865,000

1/ Production estimates are for 480 pound net weight bales.

2/ Santa Cruz County acreage included with Pima County to avoid disclosure of individual operations.

UPLAND COTTON: Acreage, yield, production, and value, Arizona, 1984-88 1/

Year	Planted	Harvested	Yield per harvested acre	Lint Production	Lint Marketing year average price 2/	Lint Value of production
	1,000 acres	1,000 acres	Lbs.	1,000 bales	Cents per lb.	1,000 Dol.
1984	430.0	429.0	1,227	1,097.0	60.1	316,463
1985	360.0	359.0	1,241	928.0	58.2	259,246
1986	250.0	249.0	1,301	675.0	54.3	175,932
1987	290.0	289.0	1,410	849.0	65.7	267,741
1988	350.0	349.0	1,190	865.0	55.5	230,436

1/ Production estimates are for 480 pound net weight bales.

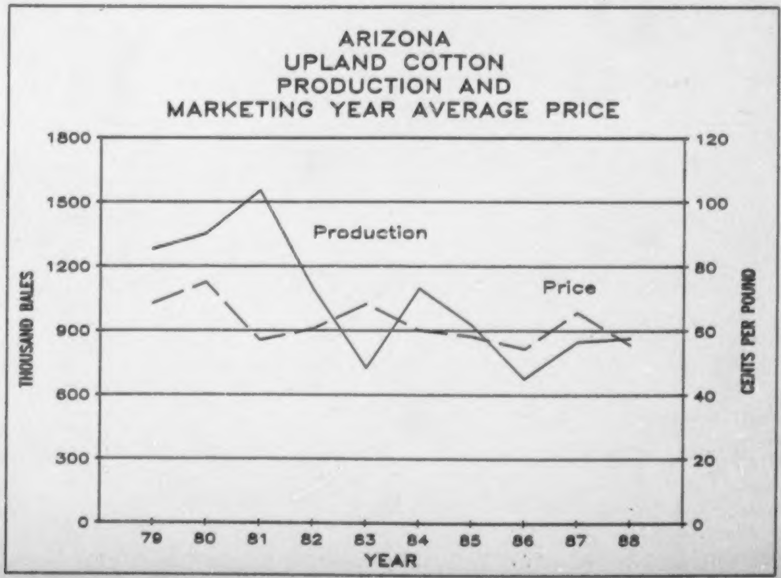
2/ Average price for the August through July marketing season. Prices do not include an allowance for loans outstanding and government purchases.

UPLAND COTTON: Farm marketings, Arizona, 1983/84-1987/88

Crop year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
	Percent											
1983/84	3.3	1.2	26.8	25.2	14.2	7.3	6.1	4.3	6.8	2.1	2.1	.6
1984/85	0	2.7	19.4	30.6	19.8	14.7	5.1	2.6	1.7	1.0	1.4	1.0
1985/86	.7	2.3	8.0	12.8	13.1	19.7	3.6	1.9	2.5	2.5	19.7	13.2
1986/87	1.0	5.9	2.2	24.5	31.4	13.0	4.0	3.1	5.5	4.2	3.6	1.6
1987/88	1.3	6.4	15.8	24.5	22.9	11.9	6.5	1.6	3.4	0.2	5.2	0.3

UPLAND COTTON: Monthly and marketing year average prices received by growers, Arizona, 1984/85-1988/89

Crop year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Marketing year average
	Cents per pound												
1984/85	--	56.2	62.6	62.8	60.0	57.6	47.9	50.8	60.4	62.0	59.7	63.8	60.1
1985/86	55.1	58.9	60.1	58.0	57.7	54.3	51.4	57.7	57.9	61.5	59.4	62.9	58.2
1986/87	64.7	55.6	52.4	50.2	55.7	54.6	53.0	49.0	49.8	54.7	68.6	71.0	54.3
1987/88	78.0	67.9	65.1	65.8	66.6	64.4	63.0	59.4	65.2	66.0	67.0	57.6	65.7
1988/89	56.2	57.7	53.8	56.2	54.5	53.8	57.5	56.0	58.2				55.5



AMERICAN PIMA COTTON: Acreage, yield, and production, Arizona, by counties, 1984-88 1/

County and year	Planted	Harvested	Yield per harvested acre	Production	County and year	Planted	Harvested	Yield per harvested acre	Production
	Acres		Lbs.	Bales		Acres		Lbs.	Bales
APACHE					**COCHISE**				
1984	0				1984	1,190	1,190	714	1,770
1985	0				1985	2,200	2,200	676	3,100
1986	0				1986	2,500	2,500	691	3,600
1987	0				1987	2,100	2,100	869	3,800
1988	0				1988	1,200	1,200	560	1,400
COCONINO					**GILA**				
1984	0				1984	0			
1985	0				1985	0			
1986	0				1986	0			
1987	0				1987	0			
1988	0				1988	0			
GRAHAM					**GREENLEE**				
1984	9,400	9,400	746	14,600	1984	0			
1985	11,140	11,140	741	17,200	1985	*			
1986	11,800	11,800	842	20,700	1986	0			
1987	12,800	12,700	801	21,200	1987	0			
1988	14,300	14,300	873	26,000	1988	0			
LA PAZ					**MARICOPA**				
1984	7,650	7,650	759	12,100	1984	13,900	13,800	810	23,300
1985	3,600	3,600	820	6,150	1985	13,100	13,050	1,030	28,000
1986	3,400	3,400	932	6,600	1986	17,800	17,700	941	34,700
1987	4,800	4,800	940	9,400	1987	22,300	22,300	1,248	58,000
1988	6,400	6,400	975	13,000	1988	33,400	33,400	862	60,000
MOHAVE					**NAVAJO**				
1984	0				1984	0			
1985	0				1985	0			
1986	0				1986	0			
1987	0				1987	0			
1988	0				1988	0			
PIMA					**PINAL**				
1984	1,230	1,180	683	1,680	1984	17,000	16,950	976	34,450
1985	1,370	1,370	701	2,000	1985	24,900	24,750	1,007	51,900
1986	3,200	3,200	840	5,600	1986	33,200	33,100	1,066	73,500
1987	3,400	3,400	847	6,000	1987	42,100	42,100	1,214	106,500
1988	5,300	5,300	734	8,100	1988	60,800	60,800	941	119,200
SANTA CRUZ					**YAVAPAI**				
1984	0				1984	0			
1985	0				1985	0			
1986	0				1986	0			
1987	0				1987	0			
1988	0				1988	0			
YUMA					**ARIZONA**				
1984	130	130	738	200	1984	50,500	50,300	841	88,100
1985	*				1985	56,500	56,300	927	108,700
1986	2,100	2,100	823	3,600	1986	74,000	73,800	965	148,300
1987	3,500	3,400	1,144	8,100	1987	91,000	90,800	1,126	213,000
1988	6,600	6,600	967	13,300	1988	128,000	128,000	904	241,000

* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Production estimates are for 480 pound net weight bales.

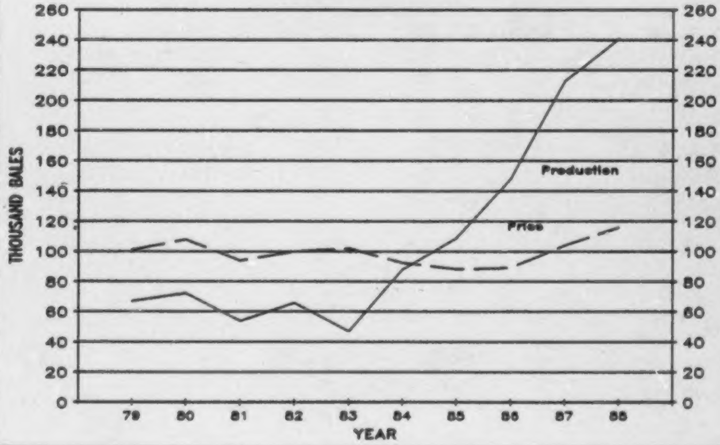
AMERICAN PIMA COTTON: Acreage, yield, production, and value, Arizona, 1984-88 1/

Year	Planted	Harvested	Yield per harvested acre	Lint		
				Production	Marketing year average price 2/	Value of production
	1,000 acres		Lbs.	1,000 bales	Cents per lb.	1,000 dol.
1984	50.5	50.3	841	88.1	92.5	39,116
1985	56.5	56.3	927	108.7	88.2	46,019
1986	74.0	73.8	965	148.3	89.2	63,496
1987	91.0	90.8	1,126	213.0	104.0	106,330
1988	128.0	128.0	904	241.0	116.0	134,189

1/ Production estimates are for 480 pound net weight bales.

2/ Average price for the August through July marketing season. Prices do not include an allowance for loans outstanding and government purchases.

ARIZONA
AMERICAN PIMA COTTON
PRODUCTION AND
MARKETING YEAR AVERAGE PRICE



ALL COTTON: Acreage, yield, and production, Arizona, by counties, 1984-88 1/

County and year	Planted	Harvested	Yield per harvested acre	Production
	Acres	Acres	Lbs.	Bales
APACHE				
1984	0			
1985	0			
1986	0			
1987	0			
1988	0			
COCHISE				
1984	17,890	17,790	674	24,970
1985	17,200	17,200	770	27,600
1986	13,600	13,500	843	23,700
1987	15,000	14,900	828	25,700
1988	18,700	18,600	733	28,400
COCONINO				
1984	0			
1985	0			
1986	0			
1987	0			
1988	0			
GILA				
1984	0			
1985	0			
1986	0			
1987	0			
1988	0			
GRAHAM				
1984	21,400	21,400	792	35,300
1985	21,740	21,740	799	36,200
1986	20,600	20,600	925	39,700
1987	21,800	21,600	889	40,000
1988	24,300	24,200	986	49,700
GREENLEE				
1984	1,020	1,020	871	1,850
1985	840	840	857	1,500
1986	800	800	960	1,600
1987	900	900	907	1,700
1988	1,100	1,100	873	2,000
LA PAZ				
1984	41,950	41,950	1,056	92,300
1985	32,100	32,100	1,154	77,150
1986	20,200	20,200	1,293	54,400
1987	28,400	28,400	1,305	77,200
1988	36,700	36,600	1,207	92,000
MARICOPA				
1984	199,900	199,100	1,266	525,300
1985	165,100	164,450	1,276	437,100
1986	120,400	120,100	1,274	318,700
1987	142,100	141,900	1,434	423,800
1988	181,800	181,600	1,122	424,500
MOHAVE				
1984	5,680	5,680	883	10,450
1985	3,600	3,600	1,000	7,500
1986	4,100	4,100	1,124	9,600
1987	4,500	4,500	1,301	12,200
1988	5,200	5,200	1,071	11,600
NAVAJO				
1984	0			
1985	0			
1986	0			
1987	0			
1988	0			
PIMA				
1984	16,730	16,480	1,060	36,380
1985	14,370	14,370	924	27,600
1986	11,000	10,800	1,049	23,600
1987	12,000	11,900	1,101	27,300
1988	14,900	14,700	983	30,100
PINAL				
1984	137,200	137,150	1,265	361,450
1985	131,900	131,450	1,253	343,100
1986	111,800	111,500	1,270	295,000
1987	125,600	125,300	1,389	362,500
1988	159,100	159,000	1,139	377,400
SANTA CRUZ				
1984	0			
1985	0			
1986	0			
1987	0			
1988	2/			
YAVAPAI				
1984	0			
1985	0			
1986	0			
1987	0			
1988	0			
YUMA				
1984	38,730	38,730	1,203	97,100
1985	29,650	29,550	1,282	78,900
1986	21,500	21,200	1,291	57,000
1987	30,700	30,400	1,446	91,600
1988	36,200	36,000	1,204	90,300
ARIZONA				
1984	480,500	479,300	1,187	1,185,100
1985	416,500	415,300	1,198	1,036,700
1986	324,000	322,800	1,224	823,300
1987	381,000	379,800	1,342	1,062,000
1988	478,000	477,000	1,113	1,106,000

1/ Production estimates are for 480 pound net weight bales.

2/ Santa Cruz County acres included with Pima County to avoid disclosure of individual operations.

ALL COTTON: Acreage, yield, production, and value, Arizona, 1984-88 1/

Year	Planted	Harvested	Yield per harvested acre	Production	Value of production
	1,000 acres		Lbs.	1,000 bales	1,000 Dol.
1984	480.5	479.3	1,187	1,185.1	355,579
1985	416.5	415.3	1,198	1,036.7	305,265
1986	324.0	322.8	1,224	823.3	239,428
1987	381.0	379.8	1,342	1,062.0	374,071
1988	478.0	477.0	1,113	1,106.0	364,625

1/ Production estimates are for 480 pound net weight bales.

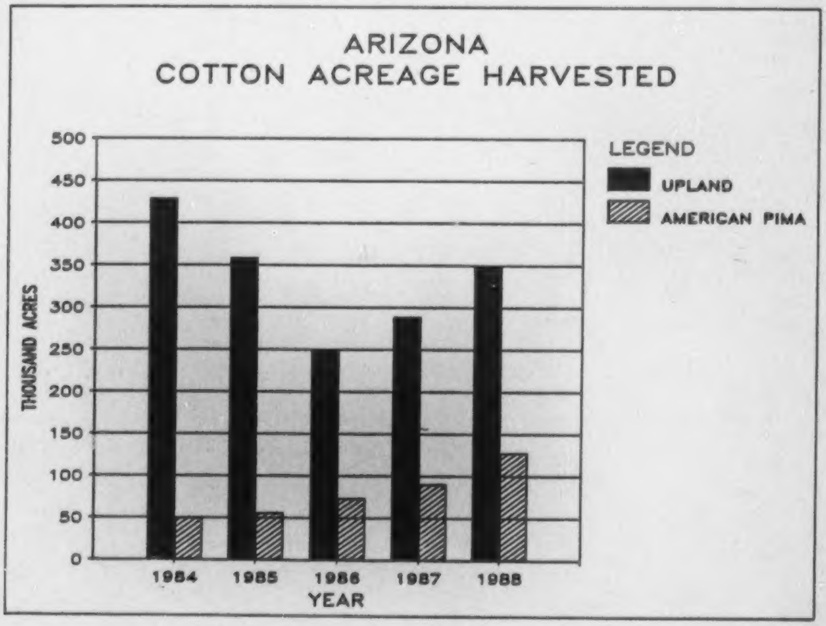
COTTONSEED: Production, disposition, price, and value, Arizona, 1984-88

Year	Production	Farm disposition		Used for planting 2/	Marketing year average price 3/	Value of production	Value of sales to oil mills
		Sales to oil mills	Other uses 1/				
		1,000 tons			Dol. per ton	1,000 dollars	
1984	464.5	311.1	153.4	4.2	101.00	46,915	31,421
1985	389.0	268.0	121.0	2.9	79.00	30,731	21,172
1986	309.0	253.0	56.0	2.6	95.00	29,355	24,035
1987	390.0	257.0	133.0	4.3	95.50	37,245	24,544
1988	433.0	259.0	174.0	4.1	129.00	55,857	33,411

1/ Includes planting seed, exports, inter-farm sales, shrinkage, losses, and other uses.

2/ Included in "other" farm disposition. Planting seed from previous year's crop.

3/ Average price for the August through July marketing season.



DURUM WHEAT: Acreage, yield, and production, Arizona, by counties, 1984-88

County and year	Planted for all purposes	FOR GRAIN			County and year	Planted for all purposes	FOR GRAIN		
		Harvested	Yield per acre	Production			Harvested	Yield per acre	Production
	Acres		Lbs. 1/	Tons 1/		Acres		Lbs. 1/	Tons 1/
APACHE					**COCHISE**				
1984	0				1984	*			
1985	*				1985	*			
1986	*				1986	*			
1987	*				1987	*			
1988	*				1988	*			
COCONINO					**GILA**				
1984	0				1984	*			
1985	*				1985	0			
1986	*				1986	0			
1987	*				1987	0			
1988	0				1988	*			
GRAHAM					**GREENLEE**				
1984	500	500	5,700	1,420	1984	*			
1985	*				1985	*			
1986	1,100	1,100	6,420	3,530	1986	*			
1987	800	800	5,100	2,040	1987	*			
1988	*				1988	*			
LA PAZ					**MARICOPA**				
1984	2,800	2,800	5,820	8,150	1984	31,300	30,800	6,060	93,320
1985	5,500	5,500	5,260	14,460	1985	15,200	15,100	5,500	41,080
1986	4,000	4,000	5,100	10,200	1986	16,000	15,800	5,570	44,050
1987	4,500	4,500	4,730	10,650	1987	12,000	11,800	5,550	32,730
1988	3,400	3,300	5,360	8,850	1988	16,500	16,200	5,580	45,210
MOHAVE					**NAVAJO**				
1984	*				1984	0			
1985	0				1985	*			
1986	0				1986	*			
1987	0				1987	*			
1988	*				1988	*			
PIMA					**PINAL**				
1984	5,000	4,900	4,560	11,170	1984	30,500	29,300	4,710	69,030
1985	1,000	900	5,090	2,290	1985	18,500	18,300	4,490	41,070
1986	1,500	1,200	5,100	3,060	1986	16,400	15,900	4,740	37,670
1987	*				1987	15,300	14,800	4,630	34,260
1988	*				1988	14,100	14,000	4,280	30,000
SANTA CRUZ					**YAVAPAI**				
1984	0				1984	0			
1985	0				1985	0			
1986	0				1986	0			
1987	0				1987	0			
1988	0				1988	0			
YUMA					**ARIZONA**				
1984	7,600	7,400	5,940	21,980	1984	82,000	80,000	5,400	216,000
1985	5,800	5,700	5,350	15,240	1985	47,000	46,000	5,040	115,920
1986	8,900	8,900	5,530	24,610	1986	49,000	48,000	5,220	125,280
1987	10,800	10,800	5,560	30,000	1987	46,000	45,000	5,100	114,750
1988	13,200	13,100	5,720	37,500	1988	51,000	50,000	5,160	129,000

* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Converted from 60 pound bushels and rounded.

DURUM WHEAT: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted for all purposes	FOR GRAIN				
		Harvested	Yield per acre	Production	Marketing year average price 1/	Value of production
	1,000 acres		Lbs. 2/	Tons 2/	Dol. per ton 2/	1,000 dol.
1984	82	80	5,400	216,000	140.70	30,384
1985	47	46	5,040	115,920	117.00	13,563
1986	49	48	5,220	125,280	122.70	15,368
1987	46	45	5,100	114,750	107.30	12,317
1988	51	50	5,160	129,000	130.00	16,770

1/ Average price for the May through April marketing season. Prices do not include an allowance for loans outstanding and government purchases.

2/ Converted from 60 pound bushels and rounded.

DURUM WHEAT: Farm marketings, Arizona, 1983/84-1987/88

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
	Percent											
1983/84	20	35	25	5	5	3	1	2	1	1	1	1
1984/85	25	45	10	1	1	4	5	1	3	1	1	3
1985/86	25	50	10	1	1	1	1	1	1	1	5	3
1986/87	52	37	2	1	1	1	1	1	1	1	1	1
1987/88	83	2	1	1	1	3	1	1	3	2	1	1

DURUM WHEAT: Monthly and marketing year average prices received by growers, Arizona, 1984/85-1988/89

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Marketing year average
	Dollars per ton												
1984/85	152.30	136.00	135.30	--	--	147.70	144.30	129.70	145.00	--	120.00	126.00	140.70
1985/86	115.00	117.30	118.00	110.00	--	--	--	--	125.70	141.30	125.00	130.00	117.00
1986/87	120.30	121.30	122.70	99.70	110.00	120.00	--	--	--	120.00	--	--	122.70
1987/88	103.00	104.30	100.00	--	--	131.00	--	127.00	128.30	134.70	--	--	107.30
1988/89	120.00	142.70	159.30	144.30	--	--	--	--	--	--	--	--	130.00

OTHER WHEAT: Acreage, yield, and production, Arizona, by counties, 1984-88

County and year	Planted for all purposes	FOR GRAIN			County and year	Planted for all purposes	FOR GRAIN		
		Harvested	Yield per acre	Production			Harvested	Yield per acre	Production
	Acres		Lbs. 1/	Tons 1/		Acres		Lbs. 1/	Tons 1/
APACHE					COCHISE				
1984	*				1984	*			
1985	*				1985	*			
1986	*				1986	*			
1987	*				1987	*			
1988	*				1988	*			
COCONINO					GILA				
1984	*				1984	*			
1985	*				1985	*			
1986	*				1986	0			
1987	*				1987	0			
1988	*				1988	0			
GRAHAM					GREENLEE				
1984	4,400	4,300	5,640	12,130	1984	*			
1985	*				1985	*			
1986	1,000	900	5,970	2,690	1986	*			
1987	600	500	3,360	840	1987	*			
1988	*				1988	*			
LA PAZ					MARICOPA				
1984	7,600	7,600	5,730	21,770	1984	18,900	18,500	5,220	48,290
1985	7,200	7,100	5,100	18,110	1985	13,000	12,800	5,230	33,470
1986	8,000	8,000	4,960	19,820	1986	12,300	12,200	6,070	37,020
1987	5,100	5,100	5,680	14,490	1987	18,900	18,700	6,370	59,540
1988	8,900	8,800	5,730	25,220	1988	12,800	12,700	6,590	41,850
MOHAVE					NAVAJO				
1984	*				1984	900	900	2,580	1,160
1985	*				1985	*			
1986	*				1986	*			
1987	*				1987	*			
1988	*				1988	*			
PIMA					PINAL				
1984	900	900	5,160	2,320	1984	4,300	4,100	5,250	10,770
1985	700	700	3,600	1,260	1985	4,000	3,900	4,670	9,120
1986	500	500	3,590	900	1986	2,200	2,100	4,840	5,080
1987	*				1987	1,300	1,200	4,750	2,850
1988	*				1988	1,500	1,400	5,320	3,720
SANTA CRUZ					YAVAPAI				
1984	*				1984	1,000	900	2,700	1,210
1985	*				1985	600	500	3,000	750
1986	0				1986	900	600	3,000	900
1987	*				1987	800	500	1,990	500
1988	*				1988	600	400	2,180	430
YUMA					ARIZONA				
1984	22,000	21,800	5,790	63,120	1984	63,000	62,000	5,400	167,400
1985	35,000	34,800	5,840	101,600	1985	67,000	66,000	5,400	178,200
1986	22,300	22,100	5,970	65,970	1986	49,000	48,000	5,640	135,360
1987	16,000	15,900	5,540	44,010	1987	45,000	44,000	5,700	125,400
1988	9,000	8,900	5,830	25,950	1988	36,000	35,000	5,880	102,900

* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Converted from 60 pound bushels and rounded.

OTHER WHEAT: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted for all purposes	FOR GRAIN Harvested	Yield per acre	Production	Marketing year average price 1/	Value of production
	1,000 acres		Lbs. 2/	Tons 2/	Dol. per ton 2/	1,000 dol.
1984	63	62	5,400	167,400	130.00	21,762
1985	67	66	5,400	178,200	117.30	20,909
1986	49	48	5,640	135,360	103.30	13,987
1987	45	44	5,700	125,400	96.30	12,080
1988	36	35	5,880	102,900	130.00	13,377

1/ Average price for the May through April marketing season. Prices do not include an allowance for loans outstanding and government purchases.

2/ Converted from 60 pound bushels and rounded.

OTHER WHEAT: Farm marketings, Arizona, 1983/84-1987/88

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
						Percent						
1983/84	18	40	24	3	3	3	2	2	2	1	1	1
1984/85	35	25	13	3	2	3	10	1	3	1	1	3
1985/86	20	30	15	2	5	2	3	2	1	1	10	9
1986/87	22	45	14	4	1	1	1	7	2	1	1	1
1987/88	27	37	23	4	1	2	1	1	1	1	1	1

OTHER WHEAT: Monthly and marketing year average prices received by growers, Arizona, 1984/85-1988/89

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Marketing year average
							Dollars per ton						
1984/85	132.70	131.70	125.30	127.00	123.70	133.30	130.00	--	142.70	126.70	--	123.00	130.00
1985/86	116.00	115.30	123.00	118.00	112.30	120.00	112.70	123.70	120.00	118.00	124.30	106.70	117.30
1986/87	105.70	101.00	98.00	103.30	--	--	90.00	99.00	94.00	95.00	--	--	103.30
1987/88	95.70	95.70	89.70	95.00	--	95.00	--	--	--	--	--	--	96.30
1988/89	--	--	--	130.00	--	--	--	--	--	--	--	--	130.00

ALL WHEAT: Acreage, yield, and production, Arizona, by counties, 1984-88

County and year	Planted for all purposes	FOR GRAIN			County and year	Planted for all purposes	FOR GRAIN		
		Harvested	Yield per acre	Production			Harvested	Yield per acre	Production
	Acres		Lbs. 1/	Tons 1/		Acres		Lbs. 1/	Tons 1/
APACHE					**COCHISE**				
1984	*				1984	1,500	1,500	4,890	3,670
1985	*				1985	1,100	1,100	5,000	2,750
1986	*				1986	900	700	4,340	1,520
1987	*				1987	900	700	3,670	1,280
1988	*				1988	1,300	1,200	5,120	3,070
COCONINO					**GILA**				
1984	*				1984	*			
1985	600	400	3,680	740	1985	*			
1986	*				1986	0			
1987	*				1987	0			
1988	*				1988	*			
GRAHAM					**GREENLEE**				
1984	4,900	4,800	5,650	13,550	1984	1,000	1,000	5,060	2,530
1985	2,500	2,400	5,790	6,950	1985	*			
1986	2,100	2,000	6,220	6,220	1986	600	600	5,180	1,550
1987	1,400	1,300	4,430	2,880	1987	800	800	4,640	1,850
1988	900	700	4,120	1,440	1988	700	700	4,460	1,560
LA PAZ					**MARICOPA**				
1984	10,400	10,400	5,750	29,920	1984	50,200	49,300	5,740	141,610
1985	12,700	12,600	5,170	32,570	1985	28,200	27,900	5,380	74,960
1986	12,000	12,000	5,000	30,020	1986	28,300	28,000	5,790	81,070
1987	9,600	9,600	5,240	25,140	1987	30,900	30,500	6,050	92,270
1988	12,300	12,100	5,630	34,070	1988	29,300	28,900	6,020	87,060
MOHAVE					**NAVAJO**				
1984	3,700	3,700	5,030	9,310	1984	900	900	2,580	1,160
1985	1,400	1,400	4,080	2,860	1985	900	700	1,920	670
1986	*				1986	600	600	2,200	660
1987	*				1987	500	500	2,260	560
1988	1,100	1,100	3,630	2,000	1988	500	300	1,800	270
PIMA					**PINAL**				
1984	5,900	5,800	4,660	13,490	1984	34,800	33,400	4,780	79,800
1985	1,700	1,600	4,430	3,550	1985	22,500	22,200	4,520	50,190
1986	2,000	1,700	4,660	3,960	1986	18,600	18,000	4,750	42,750
1987	1,700	1,400	4,370	3,060	1987	16,600	16,000	4,640	37,110
1988	1,700	1,500	4,800	3,600	1988	15,600	15,400	4,380	33,720
SANTA CRUZ					**YAVAPAI**				
1984	*				1984	1,000	900	2,700	1,210
1985	*				1985	600	500	3,000	750
1986	0				1986	900	600	3,000	900
1987	*				1987	800	500	1,990	500
1988	*				1988	600	400	2,180	430
YUMA					**ARIZONA**				
1984	29,600	29,200	5,830	85,100	1984	145,000	142,000	5,400	383,400
1985	40,800	40,500	5,770	116,840	1985	114,000	112,000	5,250	294,120
1986	31,200	31,000	5,840	90,580	1986	98,000	96,000	5,430	260,640
1987	26,800	26,700	5,540	74,010	1987	91,000	89,000	5,390	240,150
1988	22,200	22,000	5,770	63,450	1988	87,000	85,000	5,450	231,900

* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Converted from 60 pound bushels and rounded.

ALL WHEAT: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted for all purposes	FOR GRAIN				
		Harvested	Yield per acre	Production	Marketing year average price 1/	Value of production
	1,000 acres		Lbs. 2/	Tons 2/	Dol. per ton 2/	1,000 dol.
1984	145	142	5,400	383,400	136.00	52,146
1985	114	112	5,250	294,120	117.30	34,472
1986	98	96	5,430	260,640	112.70	29,355
1987	91	89	5,390	240,150	101.70	24,397
1988	87	85	5,450	231,900	130.00	30,147

1/ Average price for the May through April marketing season. Prices do not include an allowance for loans outstanding and government purchases.

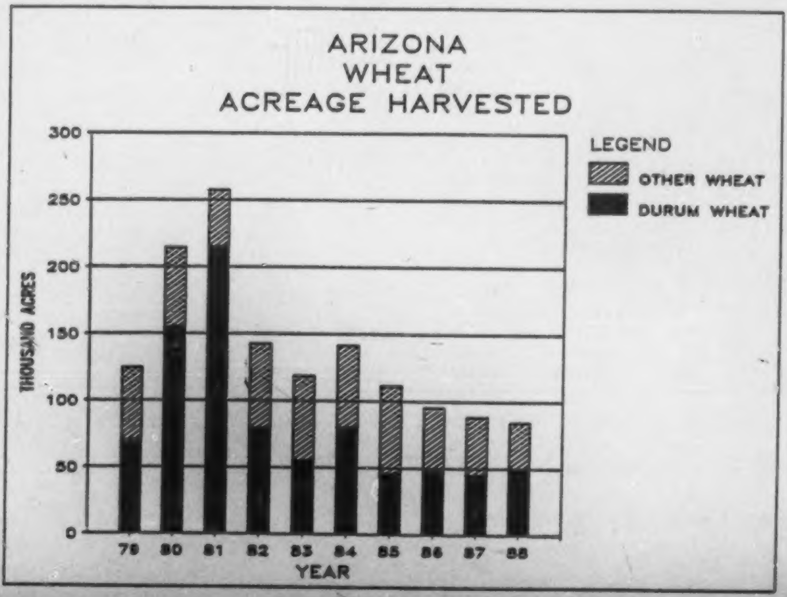
2/ Converted from 60 pound bushels and rounded.

ALL WHEAT: Farm marketings, Arizona, 1983/84-1987/88

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
						Percent						
1983/84	19	37	24	4	4	3	2	2	2	1	1	1
1984/85	30	33	10	1	1	4	10	1	5	1	1	3
1985/86	25	38	10	2	3	2	2	2	1	1	8	6
1986/87	41	40	7	2	1	1	1	3	1	1	1	1
1987/88	63	15	9	2	1	3	1	1	2	1	1	1

ALL WHEAT: Monthly and marketing year average prices received by growers, Arizona, 1984/85-1988/89

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Marketing year average
						Dollars per ton							
1984/85	141.00	134.30	128.70	127.00	123.70	140.70	136.00	129.70	144.00	126.70	120.00	124.30	136.00
1985/86	115.30	116.30	121.00	117.70	112.30	120.00	112.70	123.70	122.70	136.00	124.30	111.00	117.30
1986/87	117.70	112.00	101.00	103.30	110.00	120.00	90.00	99.00	94.00	112.70	--	--	112.70
1987/88	102.00	96.30	90.30	95.00	--	119.30	--	127.00	128.30	134.70	--	--	101.70
1988/89	120.00	142.70	159.30	134.30	--	--	--	--	--	--	--	--	130.00



BARLEY: Acreage, yield, and production, Arizona, by counties, 1984-88

County and year	Planted for all purposes	FOR GRAIN Harvested	Yield per acre	Production	County and year	Planted for all purposes	FOR GRAIN Harvested	Yield per acre	Production
	Acres	Acres	Lbs. 1/	Tons 1/		Acres	Acres	Lbs. 1/	Tons 1/
APACHE					**COCHISE**				
1984	*				1984	2,100	2,100	4,030	4,230
1985	*				1985	900	900	4,670	2,100
1986	*				1986	500	500	4,030	1,010
1987	*				1987	500	500	4,610	1,150
1988	*				1988	*			
COCONINO					**GILA**				
1984	*				1984	*			
1985	*				1985	*			
1986	0				1986	*			
1987	0				1987	*			
1988	0				1988	*			
GRAHAM					**GREENLEE**				
1984	3,400	3,400	5,510	9,370	1984	*			
1985	3,000	3,000	5,040	7,570	1985	*			
1986	2,000	1,700	5,280	4,490	1986	*			
1987	1,600	1,200	5,060	3,040	1987	*			
1988	900	700	5,690	1,990	1988	*			
LA PAZ					**MARICOPA**				
1984	1,500	1,400	5,400	3,780	1984	19,100	18,300	5,470	50,030
1985	1,000	1,000	5,040	2,520	1985	33,000	29,100	5,030	73,100
1986	600	600	5,280	1,580	1986	15,000	13,700	4,900	33,540
1987	*				1987	9,200	8,200	4,750	19,480
1988	*				1988	4,800	3,900	5,230	10,200
MOHAVE					**NAVAJO**				
1984	700	600	4,570	1,370	1984	500	400	3,360	670
1985	1,400	1,400	3,600	2,520	1985	*			
1986	1,000	1,000	4,320	2,160	1986	*			
1987	700	700	4,730	1,660	1987	*			
1988	*				1988	*			
PIMA					**PINAL**				
1984	1,200	1,200	4,000	2,400	1984	21,100	20,600	4,340	44,690
1985	1,400	1,000	3,800	1,900	1985	22,000	21,800	4,280	46,610
1986	1,600	1,000	4,660	2,330	1986	9,000	8,700	4,800	20,880
1987	1,300	700	3,770	1,320	1987	8,000	7,400	4,830	17,890
1988	500	300	3,920	590	1988	5,000	4,400	5,130	11,280
SANTA CRUZ					**YAVAPAI**				
1984	700	500	4,050	1,010	1984	0			
1985	500	300	3,650	550	1985	500	400	4,320	860
1986	*				1986	700	400	3,460	690
1987	*				1987	*			
1988	*				1988	*			
YUMA					**ARIZONA**				
1984	3,500	3,500	5,400	9,460	1984	55,000	53,000	4,850	128,470
1985	1,500	1,500	4,580	3,440	1985	67,000	62,000	4,660	144,340
1986	800	800	4,650	1,860	1986	32,000	29,000	4,800	69,600
1987	2,100	2,100	5,110	5,360	1987	25,000	22,000	4,750	52,270
1988	2,100	2,000	4,680	4,680	1988	15,000	13,000	4,990	32,450

* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Converted from 48 pound bushels and rounded.

BARLEY: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted for all purposes	FOR GRAIN				
		Harvested	Yield per acre	Production	Marketing year average price 1/	Value of production
	1,000 acres		Lbs. 2/	Tons 2/	Dol. per ton 2/	1,000 dol.
1984	55	53	4,850	128,470	125.00	16,059
1985	67	62	4,660	144,340	117.50	16,959
1986	32	29	4,800	69,600	102.90	7,163
1987	25	22	4,750	52,270	91.30	4,770
1988	15	13	4,990	32,450	97.90	3,177

1/ Average price for the May through April marketing season. Prices do not include an allowance for loans outstanding and government purchases.

2/ Converted from 48 pound bushels and rounded.

BARLEY: Farm marketings, Arizona, 1983/84-1987/88

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
						Percent						
1983/84	30	49	9	1	1	2	2	1	2	1	1	1
1984/85	40	44	4	1	1	3	1	1	2	1	1	1
1985/86	40	27	20	3	3	1	1	1	1	1	1	1
1986/87	62	24	1	1	1	1	1	1	2	1	1	1
1987/88	78	4	7	1	1	3	1	1	1	1	1	1

BARLEY: Monthly and marketing year average prices received by growers, Arizona, 1984/85-1988/89

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Marketing year average
							Dollars per ton						
1984/85	125.80	124.60	120.80	--	129.60	127.90	--	120.00	124.60	124.20	129.20	120.40	125.00
1985/86	118.30	118.80	116.30	117.10	115.80	--	--	--	104.20	--	--	106.70	117.50
1986/87	110.40	100.00	90.40	97.90	--	95.00	95.00	95.00	97.90	--	100.00	--	102.90
1987/88	92.50	95.40	75.00	--	--	95.00	--	--	--	--	--	--	91.30
1988/89	95.00	102.90	--	--	--	--	--	--	--	--	--	--	97.90

SORGHUM: Acreage, yield, and production, Arizona, by counties, 1984-87 1/

County and year	Planted for all purposes	FOR GRAIN			County and year	Planted for all purposes	FOR GRAIN		
		Harvested	Yield per acre	Production			Harvested	Yield per acre	Production
	Acres		Lbs. 2/	Tons 2/		Acres		Lbs. 2/	Tons 2/
APACHE					COCHISE				
1984	700	700	4,930	1,730	1984	2,000	1,600	6,160	4,930
1985	800	800	4,930	1,970	1985	1,500	1,000	5,940	2,970
1986	500	300	4,910	740	1986	1,200	700	5,320	1,860
1987	700	700	4,080	1,430	1987	1,500	700	5,680	1,990
COCONINO					GILA				
1984	0				1984	*			
1985	0				1985	*			
1986	0				1986	0			
1987	0				1987	0			
GRAHAM					GREENLEE				
1984	2,400	2,200	5,710	6,280	1984	*			
1985	2,500	2,300	5,150	5,930	1985	*			
1986	1,800	1,500	5,710	4,280	1986	*			
1987	1,400	1,200	5,600	3,360	1987	*			
LA PAZ					MARICOPA				
1984	*				1984	5,300	4,500	4,480	10,080
1985	*				1985	5,300	4,600	4,310	9,920
1986	1,000	1,000	4,540	2,270	1986	4,500	3,400	4,670	7,940
1987	1,300	1,300	4,610	3,000	1987	5,000	3,800	5,250	9,970
MOHAVE					NAVAJO				
1984	*				1984	500	500	2,860	710
1985	*				1985	500	500	2,800	700
1986	*				1986	*			
1987	*				1987	*			
PIMA					PINAL				
1984	1,100	900	4,140	1,870	1984	3,300	3,100	4,200	6,510
1985	1,000	800	4,480	1,790	1985	2,700	2,500	3,530	4,410
1986	*				1986	2,200	1,800	4,400	3,960
1987	*				1987	1,900	1,700	4,410	3,750
SANTA CRUZ					YAVAPAI				
1984	*				1984	*			
1985	*				1985	*			
1986	0				1986	0			
1987	0				1987	0			
YUMA					ARIZONA				
1984	1,800	1,600	5,180	4,140	1984	18,000	16,000	4,760	38,080
1985	2,600	2,400	5,380	6,450	1985	18,000	16,000	4,540	36,290
1986	2,600	2,100	5,490	5,760	1986	15,000	12,000	4,870	29,230
1987	1,200	1,000	5,320	2,660	1987	14,000	11,000	5,040	27,720
					1988	5,000	4,000	5,600	11,200

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* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ County level estimates discontinued in 1988.

2/ Converted from 56 pound bushels and rounded.

SORGHUM: Acreage, yield, and production, by districts, 1988

District 1/	Planted for all purposes	FOR GRAIN Harvested	Yield per acre	Production	District 1/	Planted for all purposes	FOR GRAIN Harvested	Yield per acre	Production
	Acres	Acres	Lbs. 2/	Tons 2/		Acres	Acres	Lbs. 2/	Tons 2/
20	500	300	4,380	660	50	2,500	2,000	5,520	5,520
70	1,000	900	5,440	2,450	90	1,000	800	6,440	2,570

1/ District 20 includes Apache, Coconino, Mohave, Navajo, and Yavapai counties; district 50 includes Maricopa and Pinal counties; district 70 includes La Paz and Yuma counties, and district 90 includes Cochise, Gila, Graham, Greenlee, Pima and Santa Cruz counties.

2/ Converted from 56 pound bushels and rounded.

SORGHUM: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted for all purposes	FOR GRAIN Harvested	Yield per acre	Production	Marketing year average price 1/	Value of production
	1,000 acres	1,000 acres	Lbs. 2/	Tons 2/	Dol. per ton 2/	1,000 dol.
1984	18	16	4,760	38,080	117.10	4,461
1985	18	16	4,540	36,290	102.90	3,732
1986	15	12	4,870	29,230	82.10	2,401
1987	14	11	5,040	27,720	83.60	2,317
1988	5	4	5,600	11,200	110.00	1,232

1/ Average price for the July through June marketing season. Prices do not include an allowance for loans outstanding and government purchases.

2/ Converted from 56 pound bushels and rounded.

SORGHUM FOR SILAGE: Acreage, yield, production, price and value, Arizona, 1984-88

Year	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	1,000 acres	Tons	Tons	Dol. per ton	1,000 dol.
1984	2	20.0	40,000	1/	
1985	2	24.0	48,000	1/	
1986	3	19.0	57,000	16.00	912
1987	3	18.0	54,000	20.00	1,080
1988	1	17.0	17,000	18.00	306

1/ Not available.

CORN: Acreage, yield, and production, Arizona, by counties, 1984-88

County and year	Planted for all purposes	FOR GRAIN			County and year	Planted for all purposes	FOR GRAIN		
		Harvested	Yield per acre	Production			Harvested	Yield per acre	Production
	Acres		Lbs. 1/	Tons 1/		Acres		Lbs. 1/	Tons 1/
APACHE					COCHISE				
1984	4,800	4,500	4,740	10,660	1984	8,500	8,000	7,980	31,920
1985	4,600	4,400	3,920	8,620	1985	8,000	6,700	6,720	22,510
1986	4,500	4,200	4,200	8,820	1986	10,500	7,500	6,960	26,090
1987	2,800	2,600	3,640	4,730	1987	8,600	6,800	6,610	22,470
1988	2,600	1,900	2,800	2,660	1988	7,300	6,400	9,400	30,070
COCONINO					GILA				
1984	1,000	700	4,020	1,410	1984	*			
1985	500	400	3,920	780	1985	*			
1986	500	400	3,920	780	1986	*			
1987	*				1987	*			
1988	*				1988	0			
GRAHAM					GREENLEE				
1984	4,700	4,500	9,780	22,000	1984	*			
1985	3,900	3,600	7,900	14,210	1985	*			
1986	5,000	4,400	8,400	18,480	1986	500	300	5,990	900
1987	3,900	3,500	7,000	12,250	1987	*			
1988	3,000	2,500	10,930	13,660	1988	500	300	8,020	1,200
LA PAZ					MARICOPA				
1984	*				1984	5,400	2,300	6,370	7,330
1985	500	500	6,720	1,680	1985	5,300	1,200	6,160	3,700
1986	1,000	1,000	6,160	3,080	1986	7,000	1,000	5,880	2,940
1987	1,600	1,600	6,270	5,020	1987	5,700	1,000	4,760	2,380
1988	1,200	1,200	6,060	3,640	1988	3,600	600	5,600	1,680
MOHAVE					NAVAJO				
1984	0				1984	4,100	3,000	5,010	7,520
1985	0				1985	4,000	2,200	3,020	3,330
1986	0				1986	4,200	2,800	3,980	5,570
1987	0				1987	3,500	2,500	3,080	3,850
1988	0				1988	3,300	2,300	3,120	3,590
PIMA					PINAL				
1984	*				1984	800	500	6,360	1,590
1985	*				1985	*			
1986	1,000	0			1986	*			
1987	*				1987	500	300	4,760	710
1988	*				1988	900	300	5,420	810
SANTA CRUZ					YAVAPAI				
1984	*				1984	900	900	4,960	2,230
1985	*				1985	700	700	4,760	1,670
1986	*				1986	1,000	1,000	5,600	2,800
1987	*				1987	700	700	5,880	2,060
1988	0				1988	500	500	5,600	1,400
YUMA					ARIZONA				
1984	600	600	9,660	2,900	1984	32,000	26,000	7,000	91,000
1985	500	500	10,580	2,650	1985	29,000	21,000	5,880	61,740
1986	1,200	1,200	6,440	3,860	1986	37,000	24,000	6,160	73,920
1987	500	500	5,600	1,400	1987	29,000	20,000	5,600	56,000
1988	600	600	6,060	1,820	1988	24,000	17,000	7,280	61,880

* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Converted from 56 pound bushels and rounded.

CORN: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted for all purposes	FOR GRAIN				
		Harvested	Yield per acre	Production	Marketing year average price 1/	Value of production
	1,000 acres		Lbs. 2/	Tons 2/	Dol. per ton 2/	1,000 dol.
1984	32	26	7,000	91,000	112.10	10,205
1985	29	21	5,880	61,740	101.10	6,240
1986	37	24	6,160	73,920	83.90	6,204
1987	29	20	5,600	56,000	81.80	4,580
1988	24	17	7,280	61,880	112.50	6,962

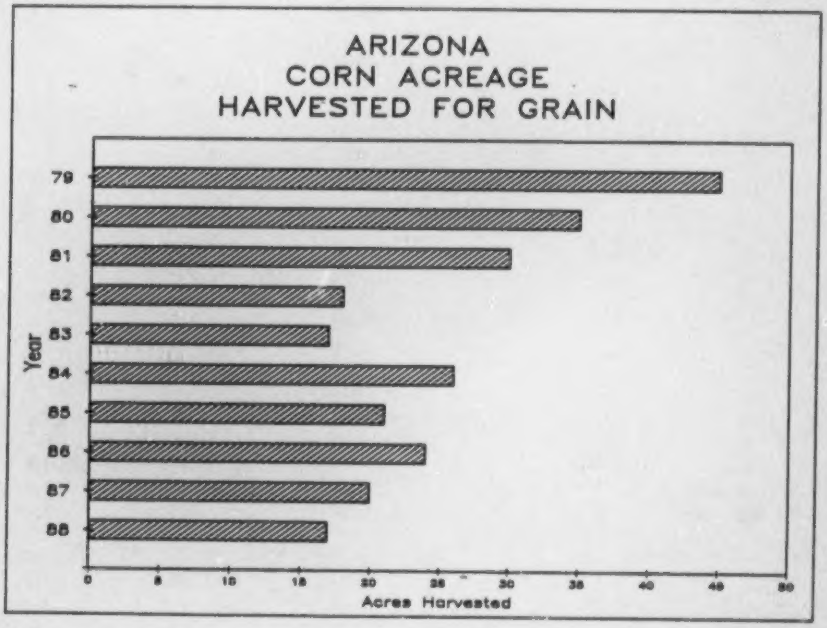
1/ Average price for the September through August marketing season. Prices do not include an allowance for loans outstanding and government purchases.

2/ Converted from 56 pound bushels and rounded.

CORN FOR SILAGE: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	1,000 acres	Tons	Tons	Dol. per ton	1,000 dol.
1984	6	25.0	150,000	1/	
1985	8	23.0	184,000	1/	
1986	13	25.0	325,000	18.00	5,850
1987	9	23.0	207,000	20.00	4,140
1988	7	27.0	189,000	20.00	3,780

1/ Not available.



ALFALFA HAY: Acreage, yield, and production, Arizona, by counties, 1984-88 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Tons	Tons		Acres	Tons	Tons
APACHE				COCHISE			
1984	3,000	4.0	12,100	1984	7,500	5.9	44,200
1985	3,700	3.8	14,100	1985	7,500	5.9	44,000
1986	3,000	4.0	12,000	1986	7,000	5.5	38,500
1987	3,100	3.7	11,400	1987	7,300	4.9	35,500
1988	3,600	4.3	15,500	1988	6,900	5.7	39,100
COCONINO				GILA			
1984	500	4.6	2,300	1984	200	4.0	800
1985	500	4.0	2,000	1985	0		
1986	500	3.6	1,800	1986	0		
1987	500	3.4	1,700	1987	0		
1988	*			1988	*		
GRAHAM				GREENLEE			
1984	5,800	6.2	36,200	1984	500	6.2	3,100
1985	4,500	6.0	27,000	1985	*		
1986	5,000	6.2	31,000	1986	500	5.0	2,500
1987	5,200	5.9	30,600	1987	500	5.8	2,900
1988	4,400	5.8	25,700	1988	500	6.6	3,300
LA PAZ				MARICOPA			
1984	24,500	7.8	190,500	1984	40,000	7.7	308,000
1985	26,000	7.6	197,000	1985	40,300	7.8	315,000
1986	31,000	8.2	254,200	1986	47,000	7.8	365,900
1987	40,000	8.1	324,000	1987	48,500	8.1	394,800
1988	36,400	8.5	311,200	1988	46,400	8.1	376,000
MOHAVE				NAVAJO			
1984	5,800	6.5	37,500	1984	4,200	3.6	15,300
1985	5,300	5.7	30,000	1985	3,200	3.1	10,000
1986	3,000	5.5	16,500	1986	3,000	3.7	11,000
1987	3,100	4.6	14,400	1987	3,100	3.7	11,600
1988	4,000	3.8	15,300	1988	3,100	3.8	11,900
PIMA				PINAL			
1984	2,100	7.1	14,900	1984	11,000	6.3	69,000
1985	3,000	6.0	18,000	1985	11,500	6.8	78,000
1986	1,000	5.7	5,700	1986	11,000	7.5	82,500
1987	1,000	5.8	5,800	1987	11,400	8.0	91,600
1988	1,500	6.7	10,000	1988	11,600	7.9	91,500
SANTA CRUZ				YAVAPAI			
1984	500	6.0	3,000	1984	2,800	4.2	11,700
1985	*			1985	4,000	4.0	16,000
1986	500	5.4	2,700	1986	4,000	3.9	15,600
1987	500	5.8	2,900	1987	4,100	4.4	17,900
1988	600	6.2	3,700	1988	2,900	3.8	11,000
YUMA				ARIZONA			
1984	31,600	8.2	259,400	1984	140,000	7.2	1,008,000
1985	35,000	7.9	276,000	1985	145,000	7.1	1,030,000
1986	38,500	8.8	338,100	1986	155,000	7.6	1,178,000
1987	31,700	9.6	302,900	1987	160,000	7.8	1,248,000
1988	32,600	9.5	309,000	1988	155,000	7.9	1,225,000

* Acres harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Does not include green chop or grazed.

OTHER HAY: Acreage, yield, and production, Arizona, by counties, 1984-88 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Tons	Tons		Acres	Tons	Tons
APACHE				COCHISE			
1984	2,500	3.0	7,500	1984	900	4.4	4,000
1985	1,800	3.0	5,400	1985	1,100	4.3	4,700
1986	1,000	2.6	2,600	1986	900	3.4	3,100
1987	1,200	3.0	3,600	1987	1,000	3.4	3,400
1988	1,100	3.6	4,000	1988	800	2.5	2,000
COCONINO				GILA			
1984	500	3.6	1,800	1984	*		
1985	500	4.0	2,000	1985	*		
1986	500	3.8	1,900	1986	*		
1987	500	3.8	1,900	1987	*		
1988	*			1988	*		
GRAHAM				GREENLEE			
1984	700	3.4	2,400	1984	*		
1985	*			1985	*		
1986	900	3.8	3,400	1986	*		
1987	1,000	4.1	4,100	1987	*		
1988	800	3.0	2,400	1988	*		
LA PAZ				MARICOPA			
1984	2,500	5.0	12,400	1984	7,000	4.9	34,000
1985	2,700	4.0	10,800	1985	6,200	3.8	23,300
1986	2,000	4.6	9,200	1986	6,000	4.4	26,600
1987	6,000	5.7	34,000	1987	5,800	4.6	26,400
1988	5,000	4.0	20,000	1988	5,000	4.1	20,500
MOHAVE				NAVAJO			
1984	800	3.5	2,800	1984	1,400	2.3	3,200
1985	800	3.0	2,400	1985	900	2.0	1,800
1986	800	3.0	2,400	1986	*		
1987	800	3.0	2,400	1987	500	2.6	1,300
1988	700	3.0	2,100	1988	*		
PIMA				PINAL			
1984	*			1984	1,800	3.6	6,500
1985	*			1985	1,000	4.0	4,000
1986	*			1986	1,000	3.5	3,500
1987	*			1987	1,000	3.6	3,600
1988	*			1988	700	3.0	2,100
SANTA CRUZ				YAVAPAI			
1984	*			1984	2,500	3.0	7,500
1985	*			1985	2,500	2.0	5,000
1986	500	2.6	1,300	1986	3,000	2.1	6,200
1987	500	2.6	1,300	1987	2,600	2.5	6,500
1988	*			1988	2,200	2.3	5,000
YUMA				ARIZONA			
1984	3,200	4.5	14,400	1984	25,000	4.0	100,000
1985	3,400	4.7	16,000	1985	22,000	3.6	79,000
1986	4,500	4.8	21,800	1986	22,000	3.8	84,000
1987	8,600	5.3	45,300	1987	30,000	4.5	135,000
1988	7,000	5.3	37,100	1988	25,000	4.0	100,000

* Acres harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Does not include green chop or grazed.

ALL HAY: Acreage, yield, and production, Arizona, by counties, 1984-88 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Tons	Tons		Acres	Tons	Tons
APACHE				COCHISE			
1984	5,500	3.6	19,600	1984	8,400	5.7	48,200
1985	5,500	3.5	19,500	1985	8,600	5.7	48,700
1986	4,000	3.7	14,600	1986	7,900	5.3	41,600
1987	4,300	3.5	15,000	1987	8,300	4.7	38,900
1988	4,700	4.1	19,500	1988	7,700	5.3	41,100
COCONINO				GILA			
1984	1,000	4.1	4,100	1984	*		
1985	1,000	4.0	4,000	1985	*		
1986	1,000	3.7	3,700	1986	*		
1987	1,000	3.6	3,600	1987	*		
1988	800	3.4	2,700	1988	*		
GRAHAM				GREENLEE			
1984	6,500	5.9	38,600	1984	*		
1985	*			1985	*		
1986	5,900	5.8	34,400	1986	*		
1987	6,200	5.6	34,700	1987	*		
1988	5,200	5.4	28,100	1988	*		
LA PAZ				MARICOPA			
1984	27,000	7.5	202,900	1984	47,000	7.3	342,000
1985	28,700	7.2	207,800	1985	46,500	7.3	338,300
1986	33,000	8.0	263,400	1986	53,000	7.4	392,500
1987	46,000	7.8	358,000	1987	54,300	7.8	421,200
1988	41,400	8.0	331,200	1988	51,400	7.7	396,500
MOHAVE				NAVAJO			
1984	6,600	6.1	40,300	1984	5,600	3.3	18,500
1985	6,100	5.3	32,400	1985	4,100	2.9	11,800
1986	3,800	5.0	18,900	1986	*		
1987	3,900	4.3	16,800	1987	3,600	3.6	12,900
1988	4,700	3.7	17,400	1988	*		
PIMA				PINAL			
1984	*			1984	12,800	5.9	75,500
1985	*			1985	12,500	6.6	82,000
1986	*			1986	12,000	7.2	86,000
1987	*			1987	12,400	7.7	95,200
1988	*			1988	12,300	7.6	93,600
SANTA CRUZ				YAVAPAI			
1984	*			1984	5,300	3.6	19,200
1985	*			1985	6,500	3.2	21,000
1986	1,000	4.0	4,000	1986	7,000	3.1	21,800
1987	1,000	4.2	4,200	1987	6,700	3.6	24,400
1988	*			1988	5,100	3.1	16,000
YUMA				ARIZONA			
1984	34,800	7.9	273,800	1984	165,000	6.7	1,108,000
1985	38,400	7.6	292,000	1985	167,000	6.6	1,109,000
1986	43,000	8.4	359,900	1986	177,000	7.1	1,262,000
1987	40,300	8.6	348,200	1987	190,000	7.3	1,383,000
1988	39,600	8.7	346,100	1988	180,000	7.4	1,325,000

* Acres harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations for alfalfa or other hay.

1/ Does not include green chop or grazed.

ALL HAY: Acreage, yield, production, price, and value, Arizona, 1984-88 1/

Year	Harvested	Yield per acre	Production	Marketing year average price 2/	Value of production
	1,000 acres	Tons	1,000 tons	Dol. per ton	1,000 dol.
1984	165	6.7	1,108	84.50	93,626
1985	167	6.6	1,109	79.50	88,166
1986	177	7.1	1,262	70.50	88,971
1987	190	7.3	1,383	81.50	112,715
1988	180	7.4	1,325	91.00	120,575

1/ Does not include green chop or grazed.

2/ Average price for the April through March marketing season.

ALL HAY: Farm marketings, Arizona, 1983/84-1987/88

Crop year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
						Percent						
1983/84	14	15	11	4	4	8	6	6	6	6	8	12
1984/85	13	18	7	6	8	10	10	5	6	5	6	6
1985/86	15	20	6	4	5	5	10	6	9	7	6	7
1986/87	12	18	6	9	5	6	8	10	5	5	8	8
1987/88	14	16	8	9	6	6	6	4	6	5	5	15

ALL HAY: Monthly and marketing year average prices received by growers, Arizona, 1984/85-1988/89 1/

Crop year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Marketing year average
						Dollars per ton							
1984/85	94.00	90.00	81.00	74.00	70.00	77.00	81.00	85.00	87.00	89.00	90.00	89.00	84.50
1985/86	89.00	80.00	79.00	72.00	73.00	67.00	79.00	78.00	76.00	80.00	82.00	78.00	79.50
1986/87	76.00	76.00	67.00	53.00	54.00	55.00	62.00	69.00	72.00	74.00	81.00	90.00	70.50
1987/88	86.00	83.00	84.00	65.00	63.00	68.00	69.00	73.00	84.00	93.00	86.00	97.00	84.00
1988/89	95.00	94.00	78.00	77.00	78.00	89.00	90.00	89.00	96.00	93.00	104.00	111.00	92.00

1/ Does not include green chop or grazed.

ALFALFA HAY: Monthly prices received by growers, Arizona, 1984/85-1988/89 1/

Crop year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
						Dollars per ton						
1984/85	95.00	91.00	84.00	77.00	71.00	79.00	82.00	91.00	94.00	90.00	92.00	90.00
1985/86	90.00	80.00	79.00	72.00	73.00	69.00	79.00	78.00	76.00	80.00	83.00	78.00
1986/87	76.00	76.00	67.00	53.00	54.00	55.00	60.00	72.00	73.00	76.00	82.00	90.00
1987/88	87.00	83.00	85.00	68.00	63.00	72.00	72.00	78.00	88.00	95.00	87.00	97.00
1988/89	95.00	94.00	81.00	81.00	81.00	94.00	94.00	100.00	100.00	95.00	107.00	113.00

1/ Does not include green chop or grazed.

OTHER HAY: Monthly prices received by growers, Arizona, 1984/85-1988/89 1/

Crop year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
						Dollars per ton						
1984/85	75.00	75.00	62.00	63.00	63.00	59.00	68.00	64.00	59.00	56.00	57.00	50.00
1985/86	65.00	63.00	--	55.00	55.00	55.00	--	65.00	--	65.00	70.00	--
1986/87	--	--	--	--	--	45.00	--	43.00	56.00	50.00	60.00	--
1987/88	54.00	--	51.00	56.00	57.00	54.00	54.00	40.00	52.00	66.00	57.00	--
1988/89	--	--	66.00	70.00	70.00	82.00	80.00	80.00	80.00	84.00	75.00	80.00

1/ Does not include green chop or grazed.

OFF FARM GRAIN STOCKS: Arizona, quarterly, 1984-89 1/

Quarter	1984	1985	1986	1987	1988	1989
			Tons 2/			
			Wheat			
March 1	3/ 47,940	3/ 58,230	3/ 38,520	61,650	31,080	41,700
June 1 4/	*	21,660	10,530	25,530	11,700	
September 1	5/ 127,500	5/ 102,390	125,070	61,920	83,430	
December 1	6/ 95,490	6/ 76,770	93,180	40,080	56,220	
			Corn			
March 1	3/ 23,800	3/ 12,150	3/ 10,250	43,510	36,710	20,720
June 1	11,900	6,270	6,330	25,930	27,750	
September 1 4/	5/ 3,920	5/ 1,150	1,880	27,020	16,940	
December 1	6/ 30,420	6/ 19,800	45,500	52,640	33,910	
			Barley			
March 1	3/ 17,980	3/ 8,540	7/			11,740
June 1 4/	*	4,130	2,450	3,890	*	
September 1	5/ 28,800	5/ 29,520	7/		10,200	
December 1	6/ 19,490	6/ 19,580	7/		14,230	
			Sorghum			
March 1	3/ 103,600	82,940	7/			
June 1	79,800	55,780	93,720	189,170	125,330	
September 1 4/	5/ 15,400	5/ 17,560	78,880	242,200	120,850	
December 1	6/ 111,520	6/ 123,060	7/			

* Not published to avoid disclosure of individual operations.

1/ Includes stocks at mills, elevators, warehouses, terminals, processors, and commercial feedlots. 2/ Converted from bushels and rounded. 3/ April 1. 4/ Includes old crop grain only. 5/ October 1. 6/ January 1 following year. 7/ Discontinued.

GRAIN STOCKS: Off farm storage facilities, Arizona, 1984-88

Month and year	Facilities 1/	Storage capacity
	Number	Tons
January 1984	37	749,500
January 1985	37	824,000
January 1986	38	780,000
December 1986	37	782,750
December 1987	34	787,500
December 1988	33	744,750

1/ Includes mills, elevators, warehouses, terminals, processors, and commercial feedlots.

ON FARM HAY STOCKS: Arizona, 1984-89

Month	1984	1985	1986	1987	1988	1989
				Tons		
May 1 1/	12,000	66,000	55,000	25,000	41,000	2[illegible],000
December 1	2/ 111,000	2/ 177,000	2/ 290,000	263,000	133,000	

1/ Includes old crop only.

2/ January 1 following year.

OTHER FIELD CROPS: Acreage, production, and value, Arizona 1984-88

Crop	Year	Harvested	Unit	Production	Value of production
		Acres		1,000	1,000 dol.
DRY BEANS	1984	1,800	Lb.	1,450	305
	1985	900		620	99
	1986	1/			
	1987	1/			
	1988	1/			
JOJOBA	1984	2,250	Lb.	126	675
	1985	250		11	17
	1986	8,500		1,000	1,250
	1987	9,000		900	1,260
	1988	13,000		2,300	5,175
OATS FOR GRAIN	1984	500	Lb.	3,000	205
	1985	425		1,900	102
	1986	650		2,600	137
	1987	750		3,180	215
	1988	1,060		4,650	464
PEANUTS	1984	3,000	Lb.	7,734	1,934
	1985	3,500		8,313	1,255
	1986	730		1,680	510
	1987	714		1,428	343
	1988	772		924	536
POPCORN	1984	1,000	Lb.	6,500	715
	1985	1,200		6,000	600
	1986	800		4,320	346
	1987	200		800	104
	1988	200		800	104
SAFFLOWER	1984	6,100	Ton	11.0	1,647
	1985	0			
	1986	2,500		2.5	563
	1987	2,500		2.5	450
	1988	750		.4	176
SESAME	1984	5,000	Lb.	6,250	1,813
	1985	8,000		9,200	2,392
	1986	8,000		9,600	2,016
	1987	2,000		2,400	480
	1988	0			

1/ Not available.

Source: Statistics developed with the assistance of the Arizona Cooperative Extension Service and growers and dealers.

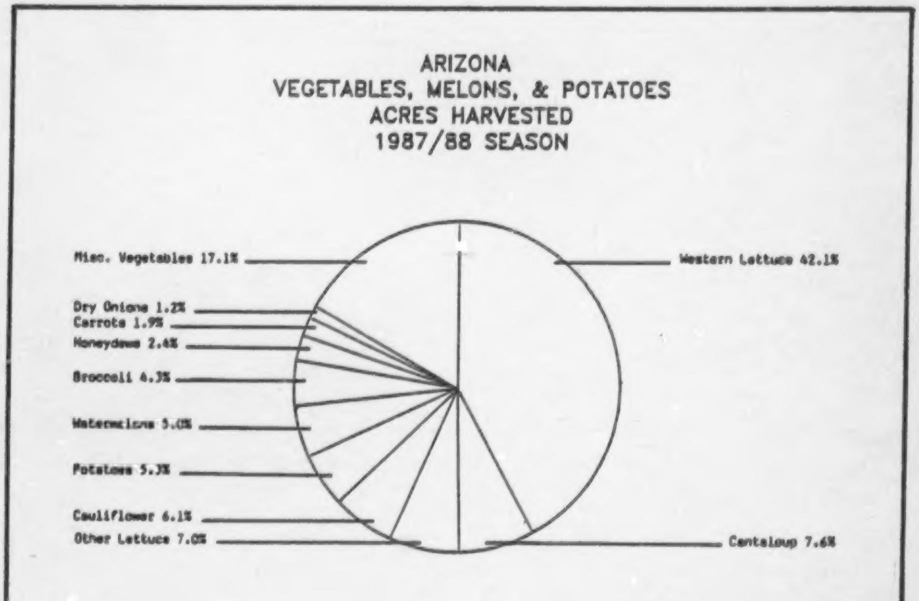
VEGETABLES, MELONS, AND POTATOES

The crop seasons for commercial vegetable crops in Arizona vary depending upon the specific crop. The summaries for lettuce, carrots, broccoli, and cauliflower reflect the 1987/88 season while other vegetable crops included represent the 1988 season. Production for the principal vegetables, potato, and melon crops totaled 19,558,000 pounds, 2 percent below 1987. This production area of 82,800 harvested acres in 1988 includes lettuce, carrots, broccoli, potatoes, dry onions, watermelons, cantaloups, honeydews, and cauliflower. For the fresh market vegetables covered by the Agricultural Statistics Board, Arizona ranked third nationally in area harvested, total production, and total value of production. California and Florida ranked first and second, respectively.

Iceburg lettuce still represents the most significant vegetable crop in Arizona, accounting for almost 69 percent of the total value of production for all vegetables in 1988. Nationally, the state ranked second in lettuce and cauliflower production and third in honeydews and broccoli.

The total value of vegetable production for Arizona in 1988 increased 58 percent over the previous year's level. This increased value can be primarily attributed to the 128 percent increase in value of production for western lettuce. Winter lettuce crops in the western areas of Arizona were affected significantly by whitefly infestations and poor planting conditions resulting in lower yields per acre and higher prices. Western lettuce prices peaked in November with an average price of $51.20 per hundredweight, an increase of $40.50 over the November average price of the previous year. The final season average price was up 121 percent.

Value of 'miscellaneous' vegetables was estimated at over $58 million in 1988, nearly 13 percent of the value of all vegetables produced in Arizona. The most significant among these were romaine, leaf lettuce, greens, field tomatoes, asparagus, and green onions.


ARIZONA
VEGETABLES, MELONS, & POTATOES
ACRES HARVESTED
1987/88 SEASON

WESTERN LETTUCE: Acreage, yield, and production, Arizona, by counties, 1983/84-1987/88

County and crop year	Harvested	Yield per acre	Production	County and crop year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
LA PAZ				YUMA			
1983/84	4,200	268	1,124	1983/84	25,900	290	7,500
1984/85	4,800	241	1,157	1984/85	31,800	297	9,457
1985/86	800	250	200	1985/86	31,300	281	8,788
1986/87	1,000	240	240	1986/87	34,200	333	11,376
1987/88	700	271	190	1987/88	41,300	285	11,780

WESTERN LETTUCE: Acreage, yield, production, price, and value, Arizona, 1983/84-1987/88

Crop year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1983/84	30,100	30,100	285	8,579	10.20	87,506
1984/85	36,600	36,600	290	10,614	8.72	92,554
1985/86	32,100	32,100	280	8,988	11.80	106,058
1986/87	35,200	35,200	330	11,616	11.50	133,584
1987/88	42,000	42,000	285	11,970	25.40	304,038

1/ Average price for the November through April marketing season.

WESTERN LETTUCE: Monthly and season average prices received by growers, Arizona, 1983/84-1987/88

Crop year	November	December	January	February	March	April	Season average
				Dollars per cwt.			
1983/84	15.20	14.10	7.61	8.93	8.37	5.96	10.20
1984/85	5.99	8.72	13.90	7.70	7.74	6.35	8.72
1985/86	14.00	27.10	8.63	7.20	8.23	--	11.80
1986/87	10.70	10.40	14.40	7.76	14.70	6.93	11.50
1987/88	51.20	36.60	37.20	10.20	13.10	6.00	25.40

OTHER LETTUCE, SPRING: Acreage, yield, and production, Arizona, by counties, 1984-88 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
COCHISE				**MARICOPA**			
1984	820	216	177	1984	1,910	406	776
1985	1,200	135	162	1985	3,310	181	598
1986	1,050	210	221	1986	1,800	299	539
1987	940	183	172	1987	1,000	279	279
1988	1,000	240	240	1988	900	269	242
PIMA				**PINAL**			
1984	400	270	108	1984	570	281	160
1985	2/			1985	390	187	73
1986	450	220	99	1986	200	275	55
1987	560	239	134	1987	600	110	66
1988	500	176	88	1988	600	142	85

1/ "Other lettuce" refers to lettuce produced in all areas of the State except Yuma and La Paz counties.

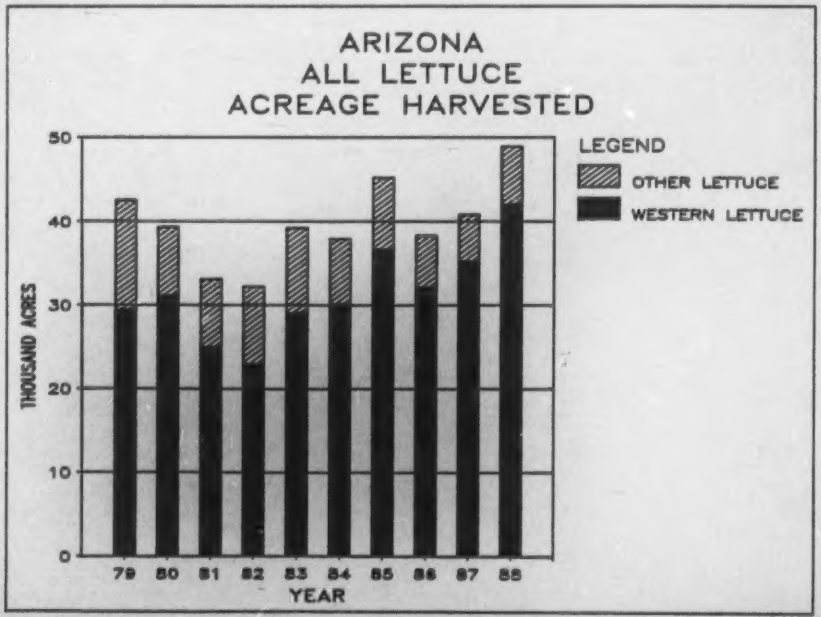
2/ Pima County acres and production included with Pinal County to avoid disclosure of individual operations.

OTHER LETTUCE, SPRING: Acreage, yield, production, price, and value, Arizona, 1984-88 1/

Year	Planted	Harvested	Yield per harvested acre	Production	Season average price 2/	Value of production
	Acres	Acres	Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984	7,300	3,700	330	1,221	6.30	7,698
1985	5,400	4,900	170	833	6.94	5,785
1986	3,500	3,500	261	914	13.80	12,657
1987	3,100	3,100	210	651	9.26	6,028
1988	3,000	3,000	218	655	7.49	4,905

1/ "Other lettuce" refers to lettuce produced in all areas of the State except Yuma and La Paz counties.

2/ Average price for March through June marketing season.



OTHER LETTUCE, FALL: Acreage, yield, and production, Arizona, by counties, 1984/85-1988/89 1/

County and crop year	Harvested	Yield per acre	Production	County and crop year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
COCHISE				MARICOPA			
1984/85	1,170	168	197	1984/85	2,160	224	484
1985/86	1,500	241	362	1985/86	1,600	195	312
1986/87	1,000	235	235	1986/87	1,000	237	237
1987/88	1,030	182	187	1987/88	790	171	135
1988/89	1,300	219	285	1988/89	1,700	215	365
PIMA				PINAL			
1984/85	190	153	29	1984/85	680	181	123
1985/86	420	210	88	1985/86	280	207	58
1986/87	600	195	117	1986/87	200	205	41
1987/88	460	196	90	1987/88	320	241	77
1988/89	450	244	110	1988/89	550	291	160

1/ "Other lettuce" refers to lettuce produced in all areas of the State except Yuma and La Paz counties.

OTHER LETTUCE, FALL: Acreage, yield, production, price, and value, Arizona, 1984/85-1988/89 1/

Crop year	Planted	Harvested	Yield per harvested acre	Production	Season average price 2/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984/85	4,500	4,200	198	833	13.30	11,096
1985/86	3,800	3,800	216	820	14.10	11,572
1986/87	3,000	2,800	225	630	10.30	6,489
1987/88	2,600	2,600	188	489	33.60	16,430
1988/89	4,000	4,000	230	920	13.50	12,420

1/ "Other lettuce" refers to lettuce produced in all areas of the State except Yuma and La Paz counties.

2/ Average price for the October through January marketing season.

ALL OTHER LETTUCE: Acreage, yield, production, price, and value, Arizona, 1984/85-1988/89 1/

Crop year	Planted	Harvested	Yield per harvested acre	Production	Season average price 2/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984/85	11,800	7,900	260	2,054	9.15	18,794
1985/86	9,200	8,700	190	1,653	10.50	17,357
1986/87	6,500	6,300	245	1,544	12.40	19,146
1987/88	5,700	5,700	200	1,140	19.70	22,458
1988/89	7,000	7,000	225	1,575	11.00	17,325

1/ "Other lettuce" refers to lettuce produced in all areas of the State except Yuma and La Paz counties.

2/ Average price for the March through June and September through January marketing seasons.

ALL OTHER LETTUCE: Monthly and season average prices received by growers, Arizona, 1984/85-1988/89

Crop year	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Season average
	Dollars per cwt.												
1984/85	6.57	5.96	6.36	7.45	--	--	--	22.60	7.50	8.08	15.30	--	9.15
1985/86	6.67	6.98	7.95	5.85	--	--	--	8.03	11.70	22.80	15.90	--	10.50
1986/87	14.80	15.50	11.30	8.00	--	--	11.00	7.68	12.30	10.80	13.20	--	12.40
1987/88	15.60	6.54	6.46	7.23	--	--	--	13.30	45.20	42.10	37.40	--	19.70
1988/89	6.49	7.06	6.20	9.54	--	--	--	10.50	13.00	22.60	16.50	--	11.00

CARROTS: Acreage, yield, and production, Arizona, by counties, 1983/84-1987/88

County and crop year	Harvested	Yield per acre	Production	County and crop year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
COCHISE				MARICOPA			
1983/84	*			1983/84	2,500	132	329
1984/85	0			1984/85	2,400	165	396
1985/86	0			1985/86	2,400	165	396
1986/87	0			1986/87	2,000	200	400
1987/88	0			1987/88	1,900	125	238
PINAL							
1983/84	*						
1984/85	0						
1985/86	0						
1986/87	0						
1987/88	1/						

* Acres harvested not published to avoid disclosure of individual operations.

1/ Pinal County acres and production included with Maricopa County to avoid disclosure of individual operations.

CARROTS: Acreage, yield, production, price, and value, Arizona, 1983/84-1987/88

Crop year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1983/84	3,000	2,900	130	377	14.80	5,580
1984/85	2,400	2,400	165	396	9.45	3,742
1985/86	2,400	2,400	165	396	10.90	4,316
1986/87	2,000	2,000	200	400	10.60	4,240
1987/88	1,900	1,900	125	238	10.20	2,428

1/ Average price for the December through June marketing season.

DRY ONIONS: Acreage, yield, and production, Arizona, by counties, 1984-88

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
COCHISE				LA PAZ			
1984	220	200	44	1984	280	179	50
1985	*			1985	*		
1986	1/			1986	0		
1987	1/			1987	0		
1988	1/			1988	0		
MARICOPA				PINAL			
1984	1,700	400	680	1984	*		
1985	1,100	480	528	1985	0		
1986	1,200	550	660	1986	0		
1987	1,300	450	585	1987	0		
1988	1,200	375	450	1988	0		
YUMA							
1984	*						
1985	0						
1986	0						
1987	0						
1988	0						

* Acres harvested not published to avoid disclosure of individual operations.

1/ Cochise County acres and production included with Maricopa County to avoid disclosure of individual operations.

DRY ONIONS: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984	2,400	2,300	350	805	9.15	7,366
1985	1,200	1,200	470	564	9.55	5,386
1986	1,200	1,200	550	660	8.78	5,795
1987	1,300	1,300	450	585	20.50	11,993
1988	1,200	1,200	375	450	7.55	3,398

1/ Average price for the April through July marketing season.

DRY ONIONS: Monthly and season average prices received by growers, Arizona, 1984-88

Year	April	May	June	July	Season average
			Dollars per cwt.		
1984	14.40	9.54	8.57	--	9.15
1985	--	8.91	8.90	21.80	9.55
1986	--	7.98	11.80	--	8.78
1987	--	21.70	18.00	20.80	20.50
1988	--	7.23	7.72	10.60	7.55

BROCCOLI: Acreage, yield, and production, Arizona, by counties, 1983/84-1987/88

County and crop year	Harvested	Yield per acre	Production	County and crop year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
LA PAZ				MARICOPA			
1983/84	*			1983/84	850	68	58
1984/85	1/			1984/85	900	88	79
1985/86	0			1985/86	1,500	66	99
1986/87	0			1986/87	1,600	80	128
1987/88	0			1987/88	1,600	77	123
PINAL				YUMA			
1983/84	0			1983/84	*		
1984/85	0			1984/85	1,000	98	98
1985/86	300	60	18	1985/86	1,100	110	121
1986/87	2/			1986/87	2,600	98	254
1987/88	2/			1987/88	2,700	99	268

* Acres harvested not published to avoid disclosure of individual operations.
1/ La Paz County acres and production included with Yuma County to avoid disclosure of individual operations.
2/ Pinal County acres and production included with Maricopa County to avoid disclosure of individual operations.

BROCCOLI: Acreage, yield, production, price, and value, Arizona, 1983/84-1987/88

Crop year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1983/84	1,300	1,300	76	99	28.00	2,772
1984/85	1,900	1,900	93	177	26.10	4,620
1985/86	2,900	2,900	82	238	23.00	5,474
1986/87	4,200	4,200	91	382	21.80	8,328
1987/88	4,300	4,300	91	391	24.80	9,697

1/ Average price for the December through April marketing season.

CAULIFLOWER: Acreage, yield, and production, Arizona, by counties, 1983/84-1987/88

County and crop year	Harvested	Yield per acre	Production	County and crop year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
MARICOPA				YUMA			
1983/84	500	82	41	1983/84	3,500	120	419
1984/85	550	78	43	1984/85	4,350	120	521
1985/86	700	77	54	1985/86	5,400	120	648
1986/87	750	80	60	1986/87	5,650	131	740
1987/88	1/ 750	68	51	1987/88	5,350	110	590

1/ Pinal County acres included with Maricopa County to avoid disclosure of individual operations.

CAULIFLOWER: Acreage, yield, production, price, and value, Arizona, 1983/84-1987/88

Crop year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1983/84	4,000	4,000	115	460	35.90	16,514
1984/85	5,000	4,900	115	564	34.30	19,345
1985/86	6,100	6,100	115	702	29.20	20,498
1986/87	6,400	6,400	125	800	27.40	21,920
1987/88	6,100	6,100	105	641	31.10	19,935

1/ Average price for the November through April marketing season.

WATERMELONS: Acreage, yield, and production, Arizona, by counties, 1984-88 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
COCHISE				LA PAZ			
1984	100	110	11	1984	*		
1985	200	80	16	1985	400	230	92
1986	200	100	20	1986	450	200	90
1987	150	167	25	1987	400	265	106
1988	150	233	35	1988	300	233	70
MARICOPA				MOHAVE			
1984	2,370	286	677	1984	*		
1985	2,300	277	637	1985	0		
1986	2,500	292	730	1986	0		
1987	3,250	322	1,045	1987	0		
1988	2,600	321	835	1988	0		
PINAL				YUMA			
1984	1,280	264	338	1984	500	222	111
1985	1,200	215	258	1985	1,100	246	271
1986	1,100	223	245	1986	1,150	230	265
1987	450	282	127	1987	950	243	231
1988	900	267	240	1988	1,050	305	320

* Acres harvested not published to avoid disclosure of individual operations.

1/ Watermelons are planted as Spring and Fall crops. Estimates by season are not available.

WATERMELONS: Acreage, yield, production, price, and value, Arizona, 1984-88 1/

Year	Planted	Harvested	Yield per harvested acre	Production	Season average price 2/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984	4,700	4,500	260	1,170	5.42	6,341
1985	5,300	5,200	245	1,274	5.27	6,714
1986	5,400	5,400	250	1,350	6.36	8,586
1987	5,200	5,200	295	1,534	5.13	7,869
1988	5,000	5,000	300	1,500	7.13	10,696

1/ Watermelons are planted as Spring and Fall crops. Estimates by season are not available.

2/ Average price for the May through July and September through November marketing season.

SPRING HONEYDEWS: Acreage, yield, and production, Arizona, by counties, 1984-88

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
LA PAZ				**MARICOPA**			
1984	1,100	186	205	1984	140	162	23
1985	990	181	179	1985	230	204	47
1986	850	178	151	1986	460	220	101
1987	780	168	131	1987	820	141	116
1988	490	234	119	1988	800	156	125
MOHAVE				**PINAL**			
1984	360	50	18	1984	*		
1985	170	182	31	1985	120	92	11
1986	0			1986	360	81	29
1987	0			1987	470	70	33
1988	0	-		1988	1/		
YUMA							
1984	*						
1985	90	200	18				
1986	130	115	15				
1987	330	133	44				
1988	110	145	16				

* Acres harvested not published to avoid disclosure of individual operations.

1/ Pinal County acres and production included with Maricopa County to avoid disclosure of individual operations.

SPRING HONEYDEWS: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984	1,900	1,700	151	256	14.90	3,824
1985	1,700	1,600	179	286	9.81	2,807
1986	1,800	1,800	164	296	11.00	3,258
1987	2,400	2,400	135	324	12.10	3,920
1988	1,400	1,400	186	260	17.70	4,594

1/ Average price for the June through July marketing season.

FALL HONEYDEWS: Acreage, yield, and production, Arizona, by counties, 1984-88

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
COCHISE				**LA PAZ**			
1984	0			1984	*		
1985	0			1985	120	225	27
1986	0			1986	150	173	26
1987	0			1987	300	167	50
1988	50	160	8	1988	300	193	58
MARICOPA				**PINAL**			
1984	160	194	31	1984	*		
1985	360	131	47	1985	120	208	25
1986	600	145	87	1986	200	160	32
1987	630	121	76	1987	70	129	9
1988	450	140	63	1988	200	155	31
YUMA							
1984	0						
1985	0						
1986	50	140	7				
1987	1/						
1988	0						

* Acres harvested not published to avoid disclosure of individual operations.

1/ Yuma County acres and production included with La Paz County to avoid disclosure of individual operations.

FALL HONEYDEWS: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984	300	300	180	54	38.30	2,066
1985	600	600	165	99	14.40	1,428
1986	1,100	1,000	152	152	15.10	2,297
1987	1,000	1,000	135	135	11.40	1,542
1988	1,000	1,000	160	160	16.70	2,672

1/ Average price for the October through November marketing season.

ALL HONEYDEWS: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984	2,200	2,000	155	310	19.00	5,890
1985	2,300	2,200	175	385	11.00	4,235
1986	2,900	2,800	160	448	12.40	5,555
1987	3,400	3,400	135	459	11.90	5,462
1988	2,400	2,400	175	420	17.30	7,266

1/ Average price for the June through July and October through November marketing seasons.

ALL HONEYDEWS: Monthly and season average prices received by growers, Arizona, 1984-88

Year	June	July	August	September	October	November	Season average
				Dollars per cwt.			
1984	16.10	13.60	--	--	39.60	24.30	19.00
1985	10.80	8.92	--	--	14.40	17.60	11.00
1986	11.50	10.90	--	14.60	15.00	17.60	12.40
1987	14.40	7.38	--	--	10.80	14.30	11.90
1988	18.30	16.50	--	--	16.80	15.50	17.30

SUMMER CANTALOUPS: Acreage, yield, and production, Arizona, by counties, 1984-88

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
LA PAZ				MARICOPA			
1984	3,660	131	479	1984	2,730	165	451
1985	3,340	167	559	1985	3,600	176	623
1986	2,100	200	420	1986	4,700	180	845
1987	2,430	130	316	1987	4,220	174	734
1988	*			1988	4,100	169	692
MOHAVE				PINAL			
1984	*			1984	130	162	21
1985	0			1985	0		
1986	0			1986	1/		
1987	0			1987	1/		
1988	0			1988	*		
YUMA							
1984	*						
1985	110	155	17				
1986	500	190	95				
1987	950	151	143				
1988	*						

* Acres harvested not published to avoid disclosure of individual operations.

1/ Pinal County acres and production included with Maricopa County to avoid disclosure of individual operations.

SUMMER CANTALOUPS: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984	6,750	6,750	147	991	14.50	14,406
1985	7,050	7,050	170	1,199	9.10	10,914
1986	7,300	7,300	189	1,377	13.50	18,590
1987	7,600	7,600	157	1,193	9.89	11,799
1988	5,100	5,100	172	878	18.30	16,067

1/ Average price for the May through July marketing season.

FALL CANTALOUPS: Acreage, yield, and production, Arizona, by counties, 1984-88

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
COCHISE				LA PAZ			
1984	0			1984	0		
1985	0			1985	1,050	64	67
1986	1/			1986	790	70	55
1987	1/			1987	450	80	36
1988	*			1988	0		
MARICOPA				PINAL			
1984	1,450	112	162	1984	100	90	9
1985	1,900	97	184	1985	0		
1986	2,700	150	405	1986	110	145	16
1987	2,700	167	450	1987	350	114	40
1988	2,450	76	186	1988	*		
YUMA							
1984	0						
1985	0						
1986	0						
1987	0						
1988	100	120	12				

* Acres harvested not published to avoid disclosure of individual operations.
1/ Cochise County acres and production included with Maricopa County to avoid disclosure of individual operations.

FALL CANTALOUPS: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984	1,550	1,550	110	171	23.80	4,070
1985	2,950	2,950	85	251	10.40	2,600
1986	3,600	3,600	132	476	13.10	6,240
1987	3,600	3,600	149	538	9.71	5,224
1988	2,500	2,500	76	189	12.30	2,325

1/ Average price for the October through November marketing season.

ALL CANTALOUPS: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984	8,300	8,300	140	1,162	15.90	18,476
1985	10,000	10,000	145	1,450	9.32	13,514
1986	10,900	10,900	170	1,853	13.40	24,830
1987	11,200	11,200	155	1,736	9.81	17,023
1988	7,600	7,600	140	1,067	17.25	18,392

1/ Average price for the May through July and October through November marketing seasons.

POTATOES: Acreage, yield, and production, Arizona, by counties, 1984-88

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
COCHISE				MARICOPA			
1984	*			1984	4,960	308	1,527
1985	380	132	50	1985	5,420	258	1,400
1986	400	128	51	1986	5,100	236	1,202
1987	1/			1987	4,900	275	1,348
1988	0			1988	5,300	235	1,246
NAVAJO				YUMA			
1984	*			1984	0		
1985	0			1985	2/		
1986	3/			1986	400	113	45
1987	0			1987	2/		
1988	0			1988	2/		

* Acres harvested not published to avoid disclosure of individual operations.

1/ Cochise County acres and production included with Maricopa County to avoid disclosure of individual operations.

2/ Yuma County acres and production included with Maricopa County to avoid disclosure of individual operations.

3/ Navajo County acres and production included with Cochise County to avoid disclosure of individual operations.

POTATOES: Acreage, yield, production, price, and value, Arizona, 1984-88

Year	Planted	Harvested	Yield per harvested acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1984	5,400	5,400	305	1,647	9.20	15,152
1985	5,800	5,800	250	1,450	8.45	12,253
1986	6,100	5,900	220	1,298	7.30	9,475
1987	4,900	4,900	275	1,348	10.50	14,154
1988	5,300	5,300	235	1,246	9.35	11,650

1/ Average price for the April through July marketing season.

POTATOES: Monthly and season average prices received by growers, Arizona, 1984-88 1/

Year	April	May	June	July	August	Season average price 2/
			Dollars per cwt.			
1984	12.30	11.00	7.75	5.00	5.00	9.20
1985	16.50	9.95	5.85	5.50	--	8.45
1986	14.10	7.00	6.10	5.50	--	7.30
1987	17.00	13.00	7.60	5.50	--	10.50
1988	21.00	10.80	9.05	6.00	--	9.35

1/ Includes fresh market and processed potato prices.

2/ Average price for the April through July marketing season.

OTHER VEGETABLES: Acres, production, and value, Arizona, 1984-88

Crop	Year	Harvested acres 1/	Unit	Production 1/	Value of production 2/
		Acres			1,000 dol.
ASPARAGUS	1985	382	30 Lb. Carton	27,545	413
	1986	486		46,129	996
	1987	1,723		115,103	2,285
	1988	1,986		165,069	8,253
BEETS	1984	72	35 Lb. Carton	35,756	215
	1985	72		44,535	256
	1986	66		32,205	161
	1987	42		22,675	170
	1988	75		19,699	148
BOK CHOY	1984	71	35 Lb. Carton	47,632	381
	1985	93		52,399	561
	1986	136		78,846	552
	1987	162		82,320	594
	1988	131		81,810	398
CABBAGE	1984	1,222	50 Lb. Carton	423,364	1,482
	1985	798		354,075	2,036
	1986	902		351,223	1,054
	1987	723		399,522	1,207
	1988	968		295,521	1,717
CHILI PEPPERS	1986	642	30 Lb. Carton	601,624	5,956
	1987	680		30,285	522
	1988	1,094		17,151	235
ENDIVE	1984	79	25 Lb. Carton	25,215	202
	1985	84		20,148	135
	1986	72		56,510	283
	1987	134		39,811	141
	1988	76		17,469	165
ESCAROLE	1984	47	50 Lb. Carton	3,537	28
	1985	61		2,065	14
	1986	46		36,294	182
	1987	53		3,639	33
	1988	36		1,538	27
GARLIC	1984	2	50 Lb. Sack	3/	3/
	1985	370		7,944	99
	1986	0			
	1987	350		133,000	4,844
	1988	180		1,250	47
GREENS	1984	1,982	25 Lb. Carton	1,793,815	6,278
	1985	1,857		1,627,376	8,381
	1986	1,942		2,021,656	7,136
	1987	1,847		1,698,535	6,285
	1988	1,448		1,261,303	5,600
KALE	1985	0	22 Lb. Carton		
	1986	152		171,608	982
	1987	170		23,144	136
	1988	177		29,709	175
LETTUCE, BOSTON	1984	172	35 Lb. Carton	19,539	117
	1985	255		2,193	10
	1986	281		57,556	383
	1987	422		8,253	49
	1988	485		64,846	267

See footnotes at end of table.

Continued--

OTHER VEGETABLES: Acres, production, and value, Arizona, 1984-88--continued

Crop	Year	Harvested acres 1/	Unit	Production 1/	Value of production 2/
		Acres			1,000 dol.
LETTUCE, LEAF	1984	824	35 Lb. Carton	450,198	3,078
	1985	1,028		746,343	4,254
	1986	1,678		1,674,847	12,310
	1987	2,287		1,511,139	6,573
	1988	2,808		1,685,797	11,514
LETTUCE, ROMAINE	1984	755	35 Lb. Carton	444,415	1,555
	1985	794		618,232	3,462
	1986	1,083		743,289	3,902
	1987	1,625		907,826	9,351
	1988	1,491		882,510	5,869
NAPA	1985	152	20 Lb. Carton	79,499	851
	1986	120		102,786	720
	1987	176		96,817	698
	1988	137		87,206	629
ONIONS, GREEN	1984	1,815	18 Lb. Carton	2,342,963	7,029
	1985	1,671		1,955,022	8,504
	1986	1,462		1,618,641	6,475
	1987	549		897,716	4,578
	1988	460		438,562	3,381
PARSLEY	1984	135	21 Lb. Carton	88,846	444
	1985	131		94,717	540
	1986	114		80,961	350
	1987	142		98,091	465
	1988	118		75,202	705
PUMPKINS	1984	211	Ton	823	165
	1985	200		1,271	102
	1986	265		400	12
	1987	248		1,395	145
	1988	258		564	59
RADISHES	1984	173	40 Lb. Carton	132,528	464
	1985	282		112,460	641
	1986	214		43,814	153
	1987	132		131,271	851
	1988	89		40,764	579
RAPINI	1984	567	25 Lb. Carton	212,264	698
	1985	761		222,968	1,784
	1986	708		182,113	1,002
	1987	601		241,057	1,367
	1988	700		167,376	949
SPINACH	1984	307	25 Lb. Carton	115,939	406
	1985	302		195,273	918
	1986	533		225,761	903
	1987	274		119,518	639
	1988	521		153,970	1,329
SQUASH	1984	94	24 Lb. Carton	18,591	102
	1985	133		32,201	277
	1986	450		151,950	1,368
	1987	374		98,161	1,005
	1988	553		35,201	169

See footnotes at end of table.

Continued--

OTHER VEGETABLES: Acres, production, and value, Arizona, 1984-88--continued

Crop	Year	Harvested acres 1/	Unit	Production 1/	Value of production 2/
		Acres			1,000 dol.
SWEET CORN	1985	112	50 Lb. Carton	20,443	164
	1986	526		26,364	219
	1987	692		106,047	711
	1988	567		64,322	495
TOMATOES, FIELD	1985	140	Ton	4,650	298
	1986	144		2,880	179
	1987	140		5,775	2,460
	1988	641		19,386	11,748
TURNIPS	1984	309	25 Lb. Sack	148,086	666
	1985	268		126,002	630
	1986	244		105,531	422
	1987	247		78,610	193
	1988	178		80,702	626
MISCELLANEOUS VEGETABLES 4/	1984	1,204		5/	3,715
	1985	829		5/	4,356
	1986	276		5/	1,631
	1987	883		5/	3,375
	1988	1,757		5/	3,152

1/ Acreage and production figures from the Arizona Fruit and Vegetable Standardization Service reports. Production figures published are utilized production totals which can be affected by weather, market conditions, and vegetable quality.

2/ Value of production developed with the assistance of the Arizona Fruit and Vegetable Standardization Service, the Arizona Arizona Cooperative Extension Service, Market News Service, and local growers.

3/ Not available.

4/ Prior to 1985 includes asparagus, bell peppers, cilantro, celery, chili peppers, cucumbers, Maza corn, Mexican corn, miscellaneous melons, napa, rutabagas, and sweet corn; 1985 includes anise, arrugula, artichokes, bell peppers, cilantro, chili peppers, green beans, Maza corn, Mexican corn, miscellaneous melons, and rutabagas; 1986 includes anise, arrugula, artichokes, bell peppers, cilantro, green beans, Maza corn, Mexican corn, miscellaneous melons, and rutabagas; 1987 includes anise, artichokes, bell peppers, cilantro, green beans, Maza corn, Mexican corn, miscellaneous melons, and rutabagas; 1988 includes anise, artichokes, bell peppers, celery, chinese cabbage, cucumbers, Fava beans, leeks, Maza corn, Mexican corn, miscellaneous melons, and okra.

5/ Not available due to the different units of production for these vegetables.

FRUITS AND NUTS

During the 1987-88 growing season, Arizona's fruit and nut crop producers realized a total value of production of $105.7 million. This was down slightly from the $106.4 million value of the crop produced during the 1986-87 season. Citrus and grapes make up the largest percentage of these values.

The value of production for all citrus crops for the 1987-88 season totaled $59.9 million, a decline of $5.7 million from the 1986-87 season. The decline in the value of production over the past several seasons has been the result of back-to-back freezes in the Phoenix and Yuma production areas which affected Valencia orange, tangerine, and grapefruit production. Also, the average age of citrus trees is increasing due to a limited amount of new plantings.

Lemon production during the 1987-88 season fell to 7.3 million cartons compared to the near record production of 14.2 million cartons the previous season. However, with the reduced production, the price received increased over $2 per carton resulting in a value of $31.4 million, up nearly 8 percent from 1986-87.

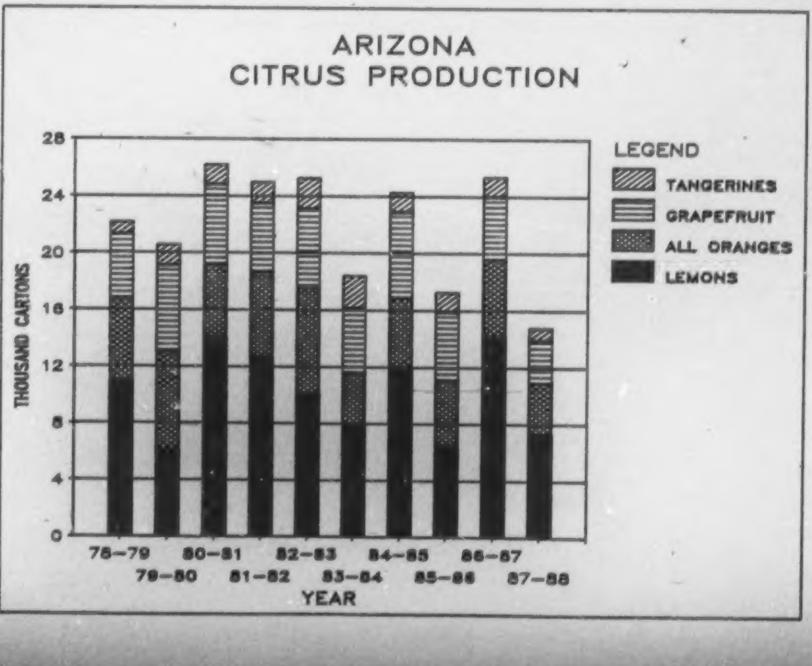
Production for all varieties of oranges in Arizona declined from 5.4 million cartons during the 1986-87 season to 3.6 million cartons for the 1987-88 season. Production of Valencia oranges totaled 2.4 million cartons with a value of $8.5 million. Navel, sweet, and miscellaneous oranges production totaled 1.2 million cartons valued at $6.4 million.

Grapefruit production for the 1987-88 season was down significantly to 3.0 million cartons with a value of $6.8 million. Tangerine production was also lower at 900,000 cartons resulting in a value of production of $6.8 million.

Grape utilized production totaled 24,000 tons for 1988, up 3,000 tons from 1987. A season average price of $1,250 per ton made the crop worth $29.9 million, an increase of 40 percent over 1987. The majority of Arizona grapes are for the fresh market with a limited amount going for raisin production. Wine varieties are planted on nearly 300 acres with some new plantings occurring each year.

A severe late freeze in early May spelled disaster for the state's young apple industry. The freeze virtually wiped out the 1988 crop resulting in only 150,000 cartons being packed versus 605,000 cartons in 1987. A crop approaching one million cartons had been expected prior to the freeze. The value of production, at $1.5 million was down from $3.3 million during 1987. Acres of apples in production for 1988 was expected to total over 4,200 before the freeze occurred. Other deciduous tree fruits grown in Arizona include apricots, nectarines, peaches, plums, and figs. The combined producing acreage for these fruits during 1988 totaled 719 acres.

There were 15,697 acres of tree nuts in production during 1988. Pecans make up most of this acreage with 14,052 producing acres followed by 1,645 acres of pistachios. The 2,800 acres of almonds that were in production for several years were abandoned during 1988.



GRAPES: Acreage and variety, Arizona, by counties, 1984-89 1/

County and year	Table Varieties				Wine Varieties	Total
	Flame Seedless	Perlette	Thompson Seedless	Other 2/		
	Acres					
MARICOPA						
1984	315	915	1,700	160	0	3,090
1985	380	935	1,735	105	0	3,155
1986	685	825	1,205	75	0	2,790
1987	655	825	1,245	105	0	2,830
1988	845	790	1,115	105	0	2,855
1989	815	750	820	75	0	2,460
PINAL						
1984	115	115	380	10	0	620
1985	195	140	340	0	0	675
1986	950	265	840	0	0	2,055
1987	1,095	280	880	10	0	2,265
1988	770	170	780	10	0	1,730
1989	975	275	695	30	0	1,975
YUMA						
1984	45	85	450	80	0	660
1985	175	185	550	80	0	990
1986	250	260	605	80	0	1,195
1987	525	370	765	45	0	1,705
1988	515	500	745	60	0	1,820
1989	505	415	410	15	0	1,345
OTHER COUNTIES 3/						
1984	0	0	0	0	100	100
1985	0	0	0	0	250	250
1986	0	0	0	0	290	290
1987	0	0	0	0	300	300
1988	0	0	0	0	295	295
1989	0	0	0	0	320	320
ARIZONA						
1984	475	1,115	2,530	250	100	4,470
1985	750	1,260	2,625	185	250	5,070
1986	1,885	1,350	2,650	155	290	6,330
1987	2,275	1,475	2,890	160	300	7,100
1988	2,130	1,460	2,640	175	295	6,700
1989	2,295	1,440	1,925	120	320	6,100

1/ Area acreage estimates developed with the assistance of Arizona Fruit and Vegetable Standardization Service, Arizona Cooperative Extension Service, Arizona Wine Growers Association, and local growers.

2/ Includes Robin, Cardinal, Black Beauty, and Exotic varieties.

3/ Includes Cochise, Pima, Santa Cruz, and Yavapai counties.

GRAPES: Production, price, and value, Arizona, 1984-88

Year	Total production	Utilized production	Season average price 1/	Value of utilized production
	Tons		Dol. per ton	1,000 dol.
1984	14,000	14,000	1,310.00	18,340
1985	18,500	18,500	968.00	17,908
1986	23,000	23,000	1,090.00	25,070
1987	31,000	21,000	1,010.00	21,279
1988	25,500	24,000	1,250.00	29,913

1/ Average price for the June 5-July 15 marketing season.

GRAPEFRUIT: Acreage and production, by varieties, Arizona, by counties, 1983/84-1987/88

County and crop year	Harvested 1/			Utilization of Production		
	White	Red Blush	All	Fresh 2/	Processed 2/	Total
		Acres			1,000 cartons 3/	
MARICOPA 4/						
1983/84	2,305	2,305	4,610	1,980	1,020	3,000
1984/85	2,340	2,410	4,750	2,450	1,720	4,170
1985/86	1,860	1,990	3,850	1,340	1,310	2,650
1986/87	1,680	1,900	3,580	1,480	1,110	2,590
1987/88	1,630	1,870	3,500	1,040	740	1,780
YUMA						
1983/84	240	1,950	2,190	1,110	430	1,540
1984/85	280	2,070	2,350	1,450	380	1,830
1985/86	220	1,630	1,850	1,740	410	2,150
1986/87	290	2,030	2,320	1,300	510	1,810
1987/88	260	2,240	2,500	960	260	1,220

1/ Acres harvested from Arizona Fruit and Vegetable Standardization Service.
2/ Production for all grapefruit.
3/ Net weight per carton, 32 pounds.
4/ Includes small acreage and production in Pinal County.

GRAPEFRUIT: Acreage, production, price, and value, Arizona, 1983/84-1987/88

Crop year	Harvested 1/	Utilization of Production			Season average price 2/	Value of production
		Fresh	Processed	Total		
	Acres		1,000 cartons 3/		Dol. per ctn.	1,000 dol.
1983/84	6,800	3,090	1,450	4,540	1.99	9,027
1984/85	7,100	3,900	2,100	6,000	2.83	16,940
1985/86	5,700	3,080	1,720	4,800	2.42	11,589
1986/87	5,900	2,780	1,620	4,400	2.53	11,126
1987/88	6,000	2,000	1,000	3,000	2.26	6,760

1/ Acres harvested from Arizona Fruit and Vegetable Standardization Service.
2/ Equivalent packinghouse door returns. Marketing season November 1-July 31.
3/ Net weight per carton, 32 pounds.

GRAPEFRUIT: Season average price and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
				Dollars per carton 1/			
1983/84	5.20	1.99	2.94	-.04	1.27	2.22	-.76
1984/85	6.35	2.83	4.05	.55	2.09	3.32	-.19
1985/86	5.95	2.42	3.57	.35	1.68	2.83	-.40
1986/87	6.20	2.53	3.74	.45	1.77	2.98	-.32
1987/88	5.55	2.26	3.09	.58	1.46	2.29	-.22

1/ Net weight per carton, 32 pounds.

GRAPEFRUIT: Monthly prices and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
				Dollars per carton 1/			
1983/84							
Oct.	4.60	1.89	2.37	-.04	1.17	1.65	-.76
Nov.	4.19	1.65	1.96	-.04	.93	1.24	-.76
Dec.	4.27	1.62	2.04	-.04	.90	1.32	-.76
Jan.	4.80	1.99	2.54	-.04	1.27	1.82	-.76
Feb.	4.88	1.96	2.62	-.04	1.24	1.90	-.76
Mar.	5.10	2.02	2.84	-.04	1.30	2.12	-.76
Apr.	5.40	2.08	3.14	-.04	1.36	2.42	-.76
May	5.75	2.24	3.49	-.04	1.52	2.77	-.76
June	5.50	1.65	3.24	-.04	.93	2.52	-.76
July	--	--	--	--	--	--	--
1984/85							
Oct.	5.85	3.02	3.59	.53	2.30	2.87	-.19
Nov.	5.95	3.19	3.69	.53	2.47	2.97	-.19
Dec.	6.35	3.66	4.09	.53	2.94	3.37	-.19
Jan.	6.55	3.71	4.31	.53	2.99	3.59	-.19
Feb.	7.10	3.50	4.86	.53	2.78	4.14	-.19
Mar.	6.15	2.69	3.78	.55	1.95	3.04	-.19
Apr.	5.85	1.99	3.48	.55	1.25	2.74	-.19
May	6.40	2.30	4.03	.55	1.56	3.29	-.19
June	6.45	2.18	4.08	.55	1.44	3.34	-.19
July	--	--	--	--	--	--	--
1985/86							
Sept.	6.65	3.79	4.28	.34	3.05	3.54	-.40
Oct.	6.65	3.67	4.28	.34	2.93	3.54	-.40
Nov.	6.50	3.16	4.13	.34	2.42	3.39	-.40
Dec.	6.45	3.08	4.08	.34	2.34	3.34	-.40
Jan.	6.10	2.67	3.73	.34	1.93	2.99	-.40
Feb.	5.80	2.38	3.43	.34	1.64	2.69	-.40
Mar.	5.15	1.83	2.78	.34	1.09	2.04	-.40
Apr.	5.45	1.95	3.08	.34	1.21	2.34	-.40
May	6.60	2.25	4.14	.37	1.50	3.39	-.38
June	6.65	1.49	4.19	.37	.74	3.44	-.38
July	--	--	--	--	--	--	--
1986/87							
Sept.	9.25	6.79	6.79	--	6.04	6.04	--
Oct.	8.75	5.46	6.29	.46	4.71	5.54	-.29
Nov.	6.15	3.40	3.69	.46	2.65	2.94	-.29
Dec.	5.50	2.53	3.04	.46	1.78	2.29	-.29
Jan.	5.50	2.48	3.04	.46	1.73	2.29	-.29
Feb.	5.15	2.14	2.69	.46	1.39	1.94	-.29
Mar.	4.39	1.60	1.93	.46	.85	1.18	-.29
Apr.	4.12	1.23	1.66	.46	.48	.91	-.29
May	6.20	2.43	3.74	.46	1.68	2.99	-.29
June	7.15	2.44	4.69	.44	1.64	3.89	-.36
July	4.57	1.28	2.11	.44	.48	1.31	-.36
1987/88							
Sept.	--	--	--	--	--	--	--
Oct.	6.30	3.63	3.84	.58	2.83	3.04	-.22
Nov.	5.65	2.76	3.19	.58	1.96	2.39	-.22
Dec.	5.45	2.79	2.99	.58	1.99	2.19	-.22
Jan.	5.50	2.77	3.04	.58	1.97	2.24	-.22
Feb.	5.15	2.22	2.69	.58	1.42	1.89	-.22
Mar.	5.05	1.92	2.59	.58	1.12	1.79	-.22
Apr.	4.88	2.11	2.42	.58	1.31	1.62	-.22
May	5.85	2.34	3.39	.58	1.54	2.59	-.22
June	5.80	2.02	3.34	.58	1.22	2.54	-.22
July	3.44	.72	.98	.58	-.09	.18	-.22

1/ Net weight per carton, 32 pounds.

LEMONS: Acreage and production, Arizona, by counties, 1983/84-1987/88

County and crop year	Harvested 1/	Utilization of Production		
		Fresh	Processed	Total
	Acres	1,000 cartons 2/		
MARICOPA 3/				
1983/84	2,110	840	640	1,480
1984/85	1,870	1,270	1,540	2,810
1985/86	2,000	650	500	1,150
1986/87	1,500	290	910	1,200
1987/88	1,500	300	290	590
YUMA				
1983/84	16,190	3,800	2,720	6,520
1984/85	15,130	3,510	5,680	9,190
1985/86	14,500	3,310	2,040	5,350
1986/87	14,000	4,400	8,600	13,000
1987/88	14,000	3,630	3,080	6,710

1/ Acres harvested from Lemon Administrative Committee.
2/ Net weight per carton, 38 pounds.
3/ Includes small acreage and production in Pinal County.

LEMONS: Acreage, production, price, and value, Arizona, 1983/84-1987/88

Crop year	Harvested 1/	Utilization of Production			Season average price 2/	Value of production
		Fresh	Processed	Total		
	Acres	1,000 cartons 3/			Dol. per ctn.	1,000 dol.
1983/84	18,300	4,640	3,360	8,000	2.42	19,320
1984/85	17,000	4,780	7,220	12,000	2.30	27,537
1985/86	16,500	3,960	2,540	6,500	7.52	48,844
1986/87	15,500	4,690	9,510	14,200	2.06	29,186
1987/88	15,500	3,930	3,370	7,300	4.31	31,418

1/ Acres harvested from Lemon Administrative Committee.
2/ Equivalent packinghouse door returns. Marketing season August 15-March 1.
3/ Net weight per carton, 38 pounds.

LEMONS: Season average price and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
	Dollars per carton 1/						
1983/84	8.10	2.42	4.14	.04	.82	2.54	-1.56
1984/85	8.75	2.30	4.90	.57	.77	3.37	-.96
1985/86	15.60	7.52	11.85	.76	6.14	10.48	-.62
1986/87	8.25	2.06	4.54	.83	.68	3.16	-.55
1987/88	11.35	4.31	7.60	.46	2.83	6.12	-1.02

1/ Net weight per carton, 38 pounds.

LEMONS: Monthly prices and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
		Dollars per carton 1/					
1983/84							
Sept.	11.25	4.56	7.29	.04	2.96	5.69	-1.56
Oct.	9.20	3.29	5.24	.04	1.69	3.64	-1.56
Nov.	7.60	2.19	3.64	.04	.59	2.04	-1.56
Dec.	7.10	1.88	3.14	.04	.28	1.54	-1.56
Jan.	6.80	1.53	2.81	.04	.07	1.21	-1.56
Feb.	7.50	1.67	3.51	.04	.07	1.91	-1.56
Mar.	7.40	1.25	3.41	.04	.36	1.81	-1.56
Apr.	5.35	.67	1.36	.04	.71	.24	-1.56
May	10.00	3.77	6.01	.04	2.17	4.41	-1.56
June	--	--	--	--	--	--	--
1984/85							
Sept.	12.20	5.26	8.21	.57	3.66	6.61	-1.03
Oct.	8.65	2.80	4.82	.56	1.28	3.30	-.96
Nov.	7.70	2.17	3.87	.56	.65	2.35	-.96
Dec.	7.95	2.40	4.12	.56	.88	2.60	-.96
Jan.	8.25	1.97	4.42	.56	.45	2.90	-.96
Feb.	8.90	1.52	5.07	.56	-.01	3.55	-.96
Mar.	8.95	.95	5.12	.56	-.58	3.60	-.96
Apr.	7.90	.99	4.07	.84	-.53	2.55	-.68
May	--	--	--	--	--	--	--
June	--	--	--	--	--	--	--
1985/86							
Sept.	24.30	15.05	20.47	.84	13.53	18.95	-.68
Oct.	25.75	16.47	22.01	.83	15.11	20.65	-.53
Nov.	13.50	6.44	9.76	.74	5.08	8.40	-.62
Dec.	11.35	4.75	7.61	.74	3.39	6.25	-.62
Jan.	10.40	3.86	6.66	.74	2.50	5.30	-.62
Feb.	8.05	2.30	4.31	.74	.94	2.95	-.62
Mar.	6.40	1.12	2.66	.74	-.25	1.30	-.62
Apr.	4.71	.96	.97	.74	-.41	-.39	-.62
May	10.15	6.41	6.41	--	5.05	5.05	--
June	6.40	2.00	2.66	.74	.64	1.30	-.62
1986/87							
Sept.	7.65	2.52	3.94	.75	1.14	2.56	-.63
Oct.	8.50	3.07	4.79	.75	1.69	3.41	-.63
Nov.	8.20	2.59	4.49	.84	1.21	3.11	-.54
Dec.	8.25	2.23	4.54	.84	.85	3.16	-.54
Jan.	8.35	1.80	4.64	.84	.42	3.26	-.54
Feb.	9.60	1.62	5.89	.84	.24	4.51	-.54
Mar.	9.75	1.34	6.04	.84	-.05	4.66	-.54
Apr.	5.45	.99	1.74	.84	-.39	.36	-.54
May	2.57	.22	-1.14	.84	-1.16	-2.52	-.54
June	--	--	--	--	--	--	--
1987/88							
Sept.	15.10	6.87	11.35	.46	5.39	9.87	-1.02
Oct.	13.05	6.29	9.30	.46	4.81	7.82	-1.02
Nov.	11.80	4.96	8.05	.46	3.48	6.57	-1.02
Dec.	9.85	3.30	6.10	.46	1.82	4.62	-1.02
Jan.	8.65	2.27	4.90	.46	.79	3.42	-1.02
Feb.	9.25	2.63	5.50	.46	1.15	4.02	-1.02
Mar.	12.15	4.34	8.40	.46	2.86	6.92	-1.02
Apr.	4.97	.84	1.22	.46	-.64	-.26	-1.02
May	--	--	--	--	--	--	--
June	--	--	--	--	--	--	--

1/ Net weight per carton, 38 pounds.

VALENCIA ORANGES: Acreage and production, Arizona, by counties, 1983/84-1987/88

County and crop year	Harvested 1/	Utilization of Production		
		Fresh	Processed	Total
	Acres	1,000 cartons 2/		
MARICOPA 3/				
1983/84	2,960	990	120	1,110
1984/85	2,670	1,270	690	1,960
1985/86	2,430	900	340	1,240
1986/87	2,300	890	610	1,500
1987/88	2,200	640	360	1,000
YUMA				
1983/84	4,540	1,070	320	1,390
1984/85	4,030	1,370	270	1,640
1985/86	4,370	1,760	400	2,160
1986/87	4,300	1,310	590	1,900
1987/88	4,200	1,060	340	1,400

1/ Acres harvested from Arizona Fruit and Vegetable Standardization Service.
2/ Net weight per carton, 37.5 pounds.
3/ Includes small acreage and production in Pinal County.

VALENCIA ORANGES: Acreage, production, price, and value, Arizona, 1983/84-1987/88

Crop year	Harvested 1/	Utilization of Production			Season average price 2/	Value of production
		Fresh	Processed	Total		
	Acres	1,000 cartons 3/			Dol. per ctn.	1,000 dol.
1983/84	7,500	2,060	440	2,500	3.85	9,630
1984/85	6,700	2,640	960	3,600	4.27	15,352
1985/86	6,800	2,660	740	3,400	3.01	10,241
1986/87	6,600	2,200	1,200	3,400	2.65	9,012
1987/88	6,400	1,700	700	2,400	3.55	8,509

1/ Acres harvested from Arizona Fruit and Vegetable Standardization Service.
2/ Equivalent packinghouse door returns. Marketing season February 1-July 15.
3/ Net weight per carton, 37.5 pounds.

VALENCIA ORANGES: Season average price and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
	Dollars per carton 1/						
1983/84	7.05	3.85	4.47	.96	2.98	3.60	.09
1984/85	7.85	4.27	5.28	1.49	3.40	4.41	.63
1985/86	6.40	3.01	3.80	.18	2.11	2.90	-.72
1986/87	6.25	2.65	3.72	.69	1.80	2.87	-.16
1987/88	7.20	3.55	4.54	1.13	2.67	3.66	.25

1/ Net weight per carton, 37.5 pounds.

VALENCIA ORANGES: Monthly prices and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
				Dollars per carton 1/			
1983/84							
Jan.	6.70	4.12	4.12	--	3.25	3.25	--
Feb.	6.45	3.38	3.87	.96	2.51	3.00	.09
Mar.	6.20	3.04	3.62	.96	2.17	2.75	.09
Apr.	7.25	4.06	4.67	.96	3.19	3.80	.09
May	9.05	5.76	6.47	.96	4.89	5.60	.09
June	7.00	3.73	4.42	.96	2.86	3.55	.09
July	--	--	--	--	--	--	--
Aug.	--	--	--	--	--	--	--
1984/85							
Jan.	10.75	8.13	8.13	--	7.26	7.26	--
Feb.	9.65	5.69	7.03	1.33	4.82	6.16	.46
Mar.	7.60	4.25	4.98	1.33	3.38	4.11	.46
Apr.	7.65	4.03	5.09	1.52	3.17	4.23	.66
May	8.10	4.55	5.54	1.52	3.69	4.68	.66
June	6.70	3.02	4.12	1.52	2.16	3.26	.66
July	5.85	3.27	3.27	--	2.41	2.41	--
Aug.	--	--	--	--	--	--	--
1985/86							
Jan.	6.70	4.10	4.10	--	3.20	3.20	--
Feb.	6.70	2.80	4.10	.18	1.90	3.20	-.72
Mar.	6.85	3.44	4.25	.18	2.54	3.35	-.72
Apr.	6.55	3.11	3.95	.18	2.21	3.05	-.72
May	6.10	2.72	3.50	.18	1.82	2.60	-.72
June	5.40	2.38	2.80	.18	1.48	1.90	-.72
July	4.23	1.12	1.63	.18	.22	.73	-.72
Aug.	--	--	--	--	--	--	--
1986/87							
Jan.	7.60	5.07	5.07	--	4.22	4.22	--
Feb.	7.60	3.78	5.07	.69	2.93	4.22	-.16
Mar.	6.15	2.53	3.62	.69	1.68	2.77	-.16
Apr.	6.00	2.49	3.47	.69	1.64	2.62	-.16
May	6.60	2.88	4.07	.69	2.03	3.22	-.16
June	5.95	2.54	3.42	.69	1.69	2.57	-.16
July	6.10	1.96	3.57	.69	1.11	2.72	-.16
Aug.	--	--	--	--	--	--	--
1987/88							
Jan.	--	--	--	--	--	--	--
Feb.	7.20	4.15	4.54	1.13	3.27	3.66	.25
Mar.	7.15	3.56	4.49	1.13	2.68	3.61	.25
Apr.	7.50	3.85	4.84	1.13	2.97	3.96	.25
May	7.20	3.56	4.54	1.13	2.68	3.66	.25
June	4.47	1.45	1.81	1.13	5.65	.93	.25
July	8.00	1.78	5.34	1.13	.90	4.46	.25
Aug.	--	--	--	--	--	--	--

1/ Net weight per carton, 37.5 pounds.

NAVEL, SWEET, AND MISCELLANEOUS ORANGES: Acreage and production, Arizona, by counties, 1983/84-1987/88

County and crop year	Harvested 1/	Utilization of Production		
		Fresh	Processed	Total
	Acres	1,000 cartons 2/		
MARICOPA 3/				
1983/84	5,050	940	130	1,070
1984/85	3,990	1,190	70	1,260
1985/86	3,910	1,020	130	1,150
1986/87	4,010	1,670	270	1,940
1987/88	3,970	1,090	70	1,160
YUMA				
1983/84	50	20	10	30
1984/85	210	30	10	40
1985/86	290	40	10	50
1986/87	290	50	10	60
1987/88	230	50	10	60

1/ Acres harvested from Arizona Fruit and Vegetable Standardization Service.
2/ Net weight per carton, 37.5 pounds.
3/ Includes small acreage and production in Pinal County.

NAVEL, SWEET, AND MISCELLANEOUS ORANGES: Acreage, production, price, and value, Arizona, 1983/84-1987/88

Crop year	Harvested 1/	Utilization of Production			Season average price 2/	Value of production
		Fresh	Processed	Total		
	Acres	1,000 cartons 3/			Dol. per ctn.	1,000 dol.
1983/84	5,100	960	140	1,100	3.92	4,309
1984/85	4,200	1,220	80	1,300	6.06	7,873
1985/86	4,200	1,060	140	1,200	4.59	5,505
1986/87	4,300	1,720	280	2,000	3.86	7,723
1987/88	4,200	1,140	80	1,220	5.22	6,364

1/ Acres harvested from Arizona Fruit and Vegetable Standardization Service.
2/ Equivalent packinghouse door returns. Marketing season November 1-March 15.
3/ Net weight per carton, 37.5 pounds.

NAVEL, SWEET, AND MISCELLANEOUS ORANGES: Season average price and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
	Dollars per carton 1/						
1983/84	7.00	3.92	4.46	.19	3.11	3.65	-.62
1984/85	9.05	6.06	6.37	1.28	5.26	5.57	.48
1985/86	8.00	4.59	5.20	-.05	3.76	4.37	-.88
1986/87	7.15	3.86	4.50	-.06	3.04	3.68	-.88
1987/88	8.55	5.22	5.54	.60	4.35	4.67	-.22

1/ Net weight per carton, 37.5 pounds.

NAVEL, SWEET, AND MISCELLANEOUS ORANGES: Monthly prices and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
		Dollars per carton 1/					
1983/84							
Oct.	--	--	--	--	--	--	--
Nov.	7.35	4.27	4.82	.19	3.46	4.01	-.62
Dec.	6.45	3.56	3.92	.19	2.75	3.11	-.62
Jan.	7.40	3.96	4.84	.19	3.15	4.03	-.62
Feb.	6.05	3.13	3.49	.19	2.32	2.68	-.62
Mar.	5.45	2.89	2.89	--	2.08	2.08	--
1984/85							
Oct.	9.75	7.07	7.07	--	6.27	6.27	--
Nov.	9.40	6.23	6.72	1.28	5.43	5.92	.48
Dec.	9.20	6.26	6.52	1.28	5.46	5.72	.48
Jan.	8.65	5.82	5.97	1.28	5.02	5.17	.48
Feb.	8.10	5.18	5.42	1.28	4.38	4.62	.48
Mar.	5.25	2.57	2.57	--	1.77	1.77	--
1985/86							
Oct.	11.15	6.95	8.35	-.05	6.12	7.52	-.88
Nov.	9.05	5.71	6.25	-.05	4.88	5.42	-.88
Dec.	8.05	4.73	5.25	-.05	3.90	4.42	-.88
Jan.	6.80	3.33	4.00	-.05	2.50	3.17	-.88
Feb.	5.85	2.02	3.05	-.05	1.19	2.22	-.88
Mar.	5.35	2.55	2.55	--	1.72	1.72	--
1986/87							
Oct.	9.00	5.50	6.35	-.06	4.68	5.53	-.88
Nov.	8.40	5.12	5.75	-.06	4.30	4.93	-.88
Dec.	7.15	3.78	4.50	-.06	2.96	3.68	-.88
Jan.	5.90	2.66	3.25	-.06	1.84	2.43	-.88
Feb.	4.00	1.13	1.35	-.06	.31	.53	-.88
Mar.	3.65	.90	1.00	-.06	.08	.18	-.88
1987/88							
Oct.	16.60	10.71	13.59	.60	9.85	12.72	-.22
Nov.	9.95	6.57	6.94	.60	5.70	6.07	-.22
Dec.	7.85	4.57	4.84	.60	3.70	3.97	-.22
Jan.	7.45	4.17	4.44	.60	3.30	3.57	-.22
Feb.	5.95	2.80	2.94	.60	1.94	2.07	-.22
Mar.	--	--	--	--	--	--	--

1/ Net weight per carton, 37.5 pounds.

ALL ORANGES: Acreage and production, Arizona, by counties, 1983/84-1987/88

County and crop year	Harvested 1/	Utilization of Production		
		Fresh	Processed	Total
	Acres	1,000 cartons 2/		
MARICOPA 3/				
1983/84	8,010	1,930	250	2,180
1984/85	6,660	2,460	760	3,220
1985/86	6,340	1,920	470	2,390
1986/87	6,310	2,560	880	3,440
1987/88	6,170	1,730	430	2,160
YUMA				
1983/84	4,590	1,090	330	1,420
1984/85	4,240	1,400	280	1,680
1985/86	4,660	1,800	410	2,210
1986/87	4,590	1,360	600	1,960
1987/88	4,430	1,110	350	1,460

1/ Acres harvested from Arizona Fruit and Vegetable Standardization Service.

2/ Net weight per carton, 37.5 pounds.

3/ Includes small acreage and production in Pinal County.

ALL ORANGES: Acreage, production, price, and value, Arizona, 1983/84-1987/88

Crop year	Harvested 1/	Utilization of Production			Season average price 2/	Value of production
		Fresh	Processed	Total		
	Acres	1,000 cartons 3/			Dol. per ctn.	1,000 dol.
1983/84	12,600	3,020	580	3,600	3.87	13,939
1984/85	10,900	3,860	1,040	4,900	4.74	23,225
1985/86	11,000	3,720	880	4,600	3.43	15,746
1986/87	10,900	3,920	1,480	5,400	3.10	16,735
1987/88	10,600	2,840	780	3,620	4.11	14,873

1/ Acres harvested from Arizona Fruit and Vegetable Standardization Service.

2/ Equivalent packinghouse door returns.

3/ Net weight per carton, 37.5 pounds.

ALL ORANGES: Season average price and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
		Dollars per carton 1/					
1983/84	7.05	3.87	4.47	.78	3.02	3.62	-.08
1984/85	8.25	4.74	5.62	1.47	3.90	4.78	.62
1985/86	6.85	3.43	4.20	.15	2.54	3.32	-.75
1986/87	6.65	3.10	4.06	.55	2.26	3.23	-.30
1987/88	7.75	4.11	4.94	1.08	3.24	4.07	.20

1/ Net weight per carton, 37.5 pounds.

ALL ORANGES: Monthly prices and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
				Dollars per carton 1/			
1983/84							
Oct.	--	--	--	--	- --	--	--
Nov.	7.35	4.27	4.82	.19	3.46	4.01	-.62
Dec.	6.45	3.56	3.92	.19	2.75	3.11	-.62
Jan.	7.40	3.97	4.82	.19	3.16	4.01	-.62
Feb.	6.40	3.35	3.81	.88	2.48	2.95	.02
Mar.	6.20	3.04	3.62	.96	2.17	2.75	.09
Apr.	7.25	4.06	4.67	.96	3.19	3.80	.09
May	9.05	5.76	6.47	.96	4.89	5.60	.09
June	7.00	3.73	4.42	.96	2.86	3.55	.09
July	--	--	--	--	--	--	--
1984/85							
Oct.	9.75	7.07	7.07	--	6.27	6.27	--
Nov.	9.40	6.23	6.72	1.28	5.43	5.92	.48
Dec.	9.20	6.26	6.52	1.28	5.46	5.72	.48
Jan.	8.70	5.86	6.01	1.28	5.06	5.21	.48
Feb.	9.05	5.52	6.41	1.33	4.67	5.57	.46
Mar.	7.55	4.22	4.93	1.33	3.35	4.06	.46
Apr.	7.65	4.03	5.09	1.52	3.17	4.23	.66
May	8.10	4.55	5.54	1.52	3.69	4.68	.66
June	6.70	3.02	4.12	1.52	2.16	3.26	.66
July	5.85	3.27	3.27	--	2.41	2.41	--
1985/86							
Oct.	11.15	6.95	8.35	-.05	6.12	7.52	-.88
Nov.	9.05	5.71	6.25	-.05	4.88	5.42	-.88
Dec.	8.05	4.73	5.25	-.05	3.90	4.42	-.88
Jan.	6.80	3.42	4.02	-.05	2.58	3.18	-.88
Feb.	6.45	2.55	3.77	.11	1.67	2.89	-.77
Mar.	6.80	3.42	4.20	.18	2.52	3.31	-.72
Apr.	6.55	3.11	3.95	.18	2.21	3.05	-.72
May	6.10	2.72	3.50	.18	1.82	2.60	-.72
June	5.40	2.38	2.80	.18	1.48	1.90	-.72
July	4.23	1.12	1.63	.18	.22	.73	-.72
1986/87							
Oct.	9.00	5.50	6.35	-.06	4.68	5.53	-.88
Nov.	8.40	5.12	5.75	-.06	4.30	4.93	-.88
Dec.	7.15	3.78	4.50	-.06	2.96	3.68	-.88
Jan.	6.10	2.87	3.44	-.06	2.05	2.62	-.88
Feb.	5.30	2.20	2.71	.36	1.37	1.87	-.48
Mar.	5.80	2.37	3.26	.67	1.52	2.41	-.18
Apr.	6.00	2.49	3.47	.69	1.64	2.62	-.16
May	6.60	2.88	4.07	.69	2.03	3.22	-.16
June	5.95	2.54	3.42	.69	1.69	2.57	-.16
July	6.10	1.96	3.57	.69	1.11	2.72	-.16
1987/88							
Oct.	16.60	10.71	13.59	.60	9.85	12.72	-.22
Nov.	9.95	6.57	6.94	.60	5.70	6.07	-.22
Dec.	7.85	4.57	4.84	.60	3.70	3.97	-.22
Jan.	7.45	4.17	4.44	.60	3.30	3.57	-.22
Feb.	6.75	3.71	4.00	1.03	2.84	3.12	.16
Mar.	7.15	3.56	4.49	1.13	2.68	3.61	.25
Apr.	7.50	3.85	4.84	1.13	2.97	3.96	.25
May	7.20	3.56	4.54	1.13	2.68	3.66	.25
June	4.45	1.45	1.81	1.13	.57	.93	.25
July	8.00	1.78	5.34	1.13	.90	4.46	.25

1/ Net weight per carton, 37.5 pounds.

TANGERINES: Acreage and production, Arizona, by counties, 1983/84-1987/88

County and crop year	Harvested 1/	Utilization of Production: Fresh	Processed	Total
	Acres	1,000 cartons 2/		
MARICOPA 3/				
1983/84	1,970	1,220	230	1,450
1984/85	2,000	930	210	1,140
1985/86	1,790	450	230	680
1986/87	1,610	710	190	900
1987/88	2,030	470	110	580
YUMA				
1983/84	1,530	580	270	850
1984/85	1,400	210	50	260
1985/86	1,510	610	110	720
1986/87	1,590	420	80	500
1987/88	1,470	280	40	320

1/ Acres harvested from Arizona Fruit and Vegetable Standardization Service.

2/ Net weight per carton, 37.5 pounds.

3/ Includes small acreage and production in Pinal County.

TANGERINES: Acreage, production, price, and value, Arizona, 1983/84-1987/88

Crop year	Harvested 1/	Utilization of Production: Fresh	Processed	Total	Season average price 2/	Value of production
	Acres	1,000 cartons 3/			Dol. per ctn.	1,000 dol.
1983/84	3,500	1,800	500	2,300	3.53	8,108
1984/85	3,400	1,140	260	1,400	6.22	8,702
1985/86	3,300	1,060	340	1,400	5.93	8,293
1986/87	3,200	1,130	270	1,400	6.12	8,571
1987/88	3,500	750	150	900	7.60	6,838

1/ Acres harvested from Arizona Fruit and Vegetable Standardization Service.

2/ Equivalent packinghouse door returns. Marketing season November 1-February 1.

3/ Net weight per carton, 37.5 pounds.

TANGERINES: Season average price and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year	F.O.B. packed fresh	Equivalent returns: Packinghouse door: All	Fresh	Processed	On-tree: All	Fresh	Processed
	Dollars per carton 1/						
1983/84	7.95	3.53	4.31	.70	2.00	2.79	-.83
1984/85	9.95	6.22	7.33	1.33	5.35	6.46	.46
1985/86	10.35	5.93	7.75	.23	5.03	6.85	-.67
1986/87	9.95	6.12	7.42	.69	5.27	6.57	-.16
1987/88	11.55	7.60	8.89	1.13	6.72	8.01	.25

1/ Net weight per carton, 37.5 pounds.

TANGERINES: Monthly prices and equivalent returns by utilization, Arizona, 1983/84-1987/88

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
		Dollars per carton 1/					
1983/84							
Oct.	--	--	--	--	--	--	--
Nov.	--	--	--	--	--	--	--
Dec.	8.15	4.51	4.51	--	2.99	2.99	--
Jan.	8.80	4.78	5.16	.70	3.26	3.64	-.83
Feb.	8.00	3.94	4.36	.70	2.42	2.84	-.03
Mar.	8.20	3.33	4.56	.70	1.80	3.04	-.83
Apr.	8.45	3.25	4.81	.70	1.73	3.29	-.83
May	4.71	.94	1.07	.70	.00	.46	-.83
1984/85							
Oct.	18.65	16.03	16.03	--	15.16	15.16	--
Nov.	8.85	5.34	6.23	1.33	4.47	5.36	.46
Dec.	9.50	6.39	6.88	1.33	5.52	6.01	.46
Jan.	10.55	6.84	7.93	1.33	5.97	7.06	.46
Feb.	10.15	5.78	7.53	1.33	4.91	6.66	.46
Mar.	9.85	5.58	7.23	1.33	4.71	6.36	.46
Apr.	6.50	3.94	3.94	--	3.08	3.08	--
May	--	--	--	--	--	--	--
1985/86							
Oct.	10.65	8.05	8.05	--	7.15	7.15	--
Nov.	9.65	5.94	7.05	.23	5.04	6.15	-.67
Dec.	11.15	6.96	8.55	.23	6.06	7.65	-.67
Jan.	10.45	6.17	7.85	.23	5.27	6.95	-.67
Feb.	10.50	5.10	7.90	.23	4.20	7.00	-.67
Mar.	9.80	5.36	7.20	.23	4.46	6.30	-.67
Apr.	7.80	4.58	5.20	.23	3.68	4.30	-.67
May	3.51	.91	.91	--	.01	.01	--
1986/87							
Oct.	11.50	8.97	8.97	--	8.12	8.12	--
Nov.	10.00	6.02	7.47	.69	5.17	6.62	-.16
Dec.	11.25	6.98	8.72	.69	6.13	7.87	-.16
Jan.	11.25	7.03	8.72	.69	6.18	7.87	-.16
Feb.	7.95	4.55	5.42	.69	3.70	4.57	-.16
Mar.	6.85	3.95	4.32	.69	3.10	3.47	-.16
Apr.	.77	-1.76	-1.76	--	-2.61	-2.61	--
May	2.64	.11	.11	--	-.74	-.74	--
1987/88							
Oct.	--	--	--	--	--	--	--
Nov.	10.45	7.65	7.79	1.13	6.77	6.91	.25
Dec.	11.90	8.13	9.24	1.13	7.25	8.36	.25
Jan.	12.70	8.31	10.04	1.13	7.43	9.16	.25
Feb.	10.65	6.31	7.99	1.13	5.43	7.11	.25
Mar.	10.20	6.45	7.54	1.13	5.57	6.66	.25
Apr.	6.10	3.44	3.44	--	2.56	2.56	--
May	15.10	12.44	12.44	--	11.56	11.56	--

1/ Net weight per carton, 37.5 pounds.

DECIDUOUS FRUITS AND NUTS: Acreage in production, Arizona, by area, 1984-89 1/

Crop and area	1984	1985	1986	1987	1988	1989
				Acres		
FRUIT						
APPLES						
Central	18	18	18	18	15	25
Eastern	951	1,832	2,951	3,701	4,232	4,360
Total	969	1,850	2,969	3,719	4,247	4,385
APRICOTS						
Central	93	98	166	173	190	202
Western	--	3	27	27	9	4
Total	93	101	193	200	199	206
FIGS						
Central	50	50	90	90	90	90
Total	50	50	90	90	90	90
NECTARINES						
Central	56	46	26	46	30	36
Total	56	46	26	46	30	36
PEACHES						
Central	179	130	90	123	78	136
Eastern	309	422	447	448	249	264
Western	--	9	56	57	60	92
Total	488	561	593	628	387	492
PLUMS						
Central	400	338	162	92	13	60
Total	400	338	162	92	13	60
NUTS						
PECANS						
Central	10,392	10,392	9,345	9,317	8,793	8,843
Eastern	2,756	2,823	3,344	3,359	3,840	3,873
Western	1,123	1,261	1,419	1,442	1,419	1,419
Total	14,271	14,476	14,108	14,118	14,052	14,135
PISTACHIOS						
Central	457	541	521	484	459	459
Eastern	186	270	590	670	1,029	1,108
Western	150	250	152	152	157	157
Total	793	1,061	1,263	1,306	1,645	1,724
ALMONDS						
Central	--	2,800	2,800	2,800	0	0
Total	--	2,800	2,800	2,800	0	0

1/ Central area includes Maricopa and Pinal counties, eastern area includes Graham, Cochise, Pima, and Santa Cruz counties, and western area includes La Paz and Yuma counties.

Source: Arizona Fruit and Vegetable Standardization Service.

DECIDUOUS FRUITS: Acres, production, and value, Arizona, 1984-88 1/

Crop	Year	Acres in production	Unit	Utilized Production	Value of production
		Acres		1,000 units	1,000 dollars
APPLES	1984	969	40 lb. carton	78	585
	1985	1,850		110	770
	1986	2,969		400	4,400
	1987	3,719		605	3,328
	1988	4,247		150	1,500
APRICOTS	1984	93	22 lb. lug	2	20
	1985	101		6	57
	1986	193		13	167
	1987	200		14	110
	1988	199		90	333
NECTARINES	1984	56	22 lb. lug	10	98
	1985	46		13	127
	1986	26		7	79
	1987	46		8	44
	1988	30		23	85
PEACHES	1984	488	22 lb. lug	73	654
	1985	561		31	250
	1986	593		33	198
	1987	628		113	465
	1988	387		97	286
PLUMS	1984	400	22 lb. lug	16	95
	1985	338		34	206
	1986	162		16	165
	1987	92		38	153
	1988	13		7	25

1/ Developed with the assistance of the Arizona Fruit and Vegetable Standardization Service, the Arizona Cooperative Extension Service, Market News Service, and local growers.

CATTLE AND CALVES

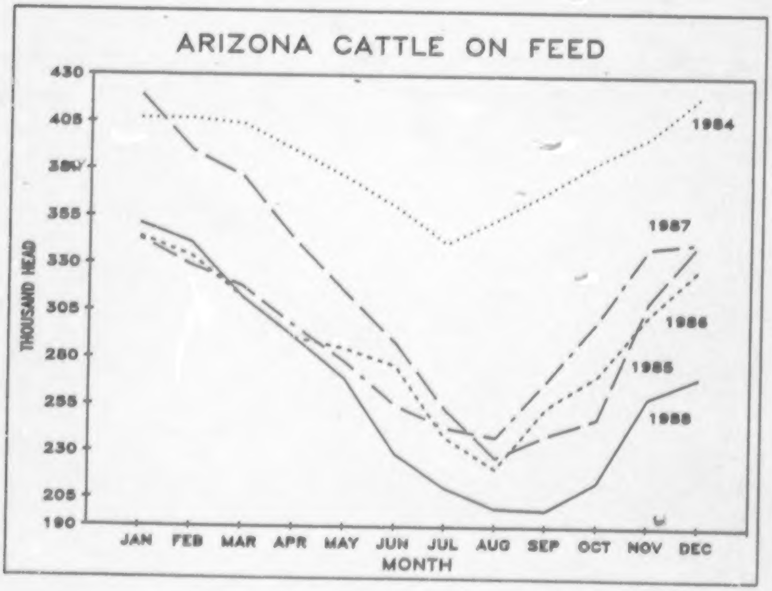
Arizona's cattle and calf inventory totaled 880,000 head as of January 1, 1989, 8 percent below 1988 and 12 percent below 1987. This represents the lowest inventory since 1951 when the number of head totaled 851,000. The main reason for the decline in numbers from January 1, 1988 is the drop in the number of cattle on feed. A total of 275,000 head of cattle were on feed January 1, 1989, 76,000 head fewer than a year earlier.

Gross income totaled $521.5 million during 1988, a 7 percent increase from 1987. The increase in income was possible due to higher prices received for cattle and calves. During 1988, all cattle prices increased an average of 8 percent to $65.80 per hundredweight with calves increasing 17 percent to $87.30 per hundredweight. Marketings totaled 780 million pounds, down 1 percent from 1987. Again in 1988, the prices received for beef were high enough to offset a decrease in marketings which allowed the cattle industry to show a gain in cash receipts and gross income over 1987.

During 1988, there were 18 feedlots in operation in Arizona, down from 20 the previous year. The average number of cattle on feed for the year was 262,000 head, down 11 percent from 1987. During 1988, the number of cattle on feed hit their lowest number since 1961. Placements totaled 444,000 head, down 19 percent from the previous year. Marketings of fed cattle totaled 428,000 head during 1988, down 7 percent from 1987. Fed cattle marketings accounted for 59 percent of the cattle marketed in Arizona during 1988.

Traditionally, cattle in Arizona feedlots are mostly steers with heifers on feed consisting of only 2 to 3 percent of the total. Of the 275,000 head on feed January 1, 1989, there were 265,000 steers and only 10,000 heifers. Steers and heifers under 500 pounds totaled 43,000 head, 500-699 pounds numbered 88,000, 700-899 pounds totaled 81,000, and 900 pounds and over tallied 63,000 head.

Inshipments during 1988 totaled 490,000 head which was down 9 percent from the 540,000 head brought into the state during 1987. Cattle shipped into the state are usually destined for feedlots and are typically shipped in from Texas, Mexico, New Mexico, Florida, Mississippi, and California.



ALL CATTLE AND MILK COWS: Number of operations and inventory, Arizona and United States, January 1, 1985-89 1/

Year	Arizona				United States			
	All cattle and calves		Milk cows		All cattle and calves		Milk cows	
	Operations	Head	Operations	Head	Operations	Head	Operations	Head
	Number	Thousand	Number	Thousand	Number	Thousand	Number	Thousand
1985	5,500	1,050	900	83	1,493,880	109,749	271,920	10,805
1986	5,200	1,050	800	88	1,447,720	105,468	253,910	11,177
1987	5,000	1,000	800	87	1,410,070	102,000	233,320	10,502
1988	4,800	960	750	90	1,370,640	99,524	220,880	10,298
1989	2/	880	2/	92	2/	99,484	2/	10,217

1/ An operation is any place having one or more head of the species on hand at any time during the year.
2/ Not available until January, 1990.

ALL CATTLE AND CALVES: Number on farms and value, Arizona, January 1, 1985-89

Year	All cattle and calves	Cows		Heifers 500 lbs. and over			Steers 500 lbs. and over	Bulls 500 lbs. and over	Heifers, steers and bulls under 500 lbs.	Value of all cattle and calves	
		Beef cows	Milk cows	Beef cow replacement	Milk cow replacement	Other heifers				Per head	Total
	1,000 head									Dollars	1,000 Dol.
1985	1,050	272	83	37	18	10	350	30	250	395	414,750
1986	1,050	293	88	47	21	10	306	31	254	375	393,750
1987	1,000	268	87	54	20	18	265	30	238	385	385,000
1988	960	260	90	51	19	14	299	27	200	500	480,000
1989	880	263	92	49	20	12	262	26	156	565	497,200

ALL CATTLE AND CALVES: Inventory, supply, and disposition, Arizona, 1984-89

Year	Inventory January 1	Calf crop	Inshipments	Marketings 1/		Farm slaughter 2/	Deaths	
				Cattle	Calves		Cattle	Calves
	1,000 head							
1984	980	305	686	785	68	3	30	35
1985	1,050	325	545	736	70	3	25	36
1986	1,050	310	530	760	72	3	25	30
1987	1,000	295	540	743	71	5	26	30
1988	960	300	490	720	92	3	25	30
1989	880							

1/ Includes animals for slaughter market, as well as younger animals shipped to other States for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.
2/ Excludes custom slaughter for farmers at commercial establishments.

ALL CATTLE AND CALVES: Production and income, Arizona, 1984-88

Year	Production 1/	Marketings 2/	Average price per 100 pounds		Value of production	Cash receipts 3/	Value of home consumption	Gross income
			Cattle	Calves				
	1,000 lbs.		Dollars		1,000 Dol.			
1984	603,925	836,840	60.30	59.40	363,898	504,388	4,594	508,982
1985	578,675	789,600	54.70	63.20	318,477	433,662	3,624	437,286
1986	552,270	812,910	51.90	58.60	287,311	423,085	2,774	425,859
1987	580,735	787,945	61.00	74.90	355,762	483,269	4,875	488,144
1988	531,780	779,560	65.80	87.30	352,027	518,411	3,050	521,461

1/ Includes total live weight of livestock marketed, farm slaughter, and custom slaughter consumed on farms where produced, minus live weight of inshipments, and any increase or decrease in the live weight of inventory.
2/ Includes animals for slaughter market, as well as younger animals shipped to other States for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.
3/ Receipts from marketings and sale of farm slaughter.

ALL CATTLE AND CALVES: Number on farms, Arizona, by counties, January 1, 1985-89 1/

County and year	All cattle and calves	County and year	All cattle and calves	County and year	All cattle and calves
	1,000 head		1,000 head		1,000 head
APACHE		COCHISE		COCONINO	
1985	65	1985	59	1985	46
1986	73	1986	58	1986	52
1987	57	1987	60	1987	48
1988	54	1988	60	1988	47
1989	54	1989	57	1989	49
GILA		GRAHAM		GREENLEE	
1985	26	1985	41	1985	19
1986	30	1986	44	1986	18
1987	40	1987	44	1987	10
1988	34	1988	39	1988	10
1989	32	1989	38	1989	12
LA PAZ		MARICOPA		MOHAVE	
1985	3	1985	262	1985	38
1986	2	1986	267	1986	35
1987	5	1987	250	1987	25
1988	4	1988	218	1988	23
1989	4	1989	210	1989	23
NAVAJO		PIMA		PINAL	
1985	47	1985	43	1985	168
1986	53	1986	49	1986	175
1987	60	1987	50	1987	155
1988	50	1988	45	1988	189
1989	50	1989	48	1989	120
SANTA CRUZ		YAVAPAI		YUMA	
1985	22	1985	73	1985	138
1986	20	1986	72	1986	102
1987	22	1987	65	1987	109
1988	20	1988	53	1988	114
1989	18	1989	60	1989	105
ARIZONA					
1985	1,050				
1986	1,050				
1987	1,000				
1988	960				
1989	880				

1/ Includes range cattle and calves, milk cows, and cattle on feed.

MILK COWS: Number on farms, Arizona, by counties, January 1, 1985-89

County and year	Milk cows	County and year	Milk cows	County and year	Milk cows
	1,000 head		1,000 head		1,000 head
MARICOPA		PIMA		PINAL	
1985	71	1985	4	1985	2
1986	79	1986	4	1986	2
1987	78	1987	4	1987	3
1988	77	1988	5	1988	5
1989	77	1989	5	1989	7
OTHER COUNTIES		ARIZONA			
1985	6	1985	83		
1986	3	1986	88		
1987	2	1987	87		
1988	3	1988	90		
1989	3	1989	92		

CATTLE AND CALVES: Number on feed, placements, marketings, and other disappearance, Arizona, 1984-88

MONTH	1984	1985	1986	1987	1988
			1,000 Head		
JANUARY					
Number on feed January 1	407	419	344	343	351
Placed on feed during January	54	33	23	31	28
Marketed during January	46	44	28	33	29
Other disappearance during January	8	18	5	12	11
FEBRUARY					
Number on feed February 1	407	390	334	329	339
Placed on feed during February	52	30	14	32	29
Marketed during February	51	35	32	33	35
Other disappearance during February	4	9	4	10	21
MARCH					
Number on feed March 1	404	376	312	318	312
Placed on feed during March	48	26	20	29	28
Marketed during March	49	45	40	41	43
Other disappearance during March	13	14	1	9	6
APRIL					
Number on feed April 1	390	343	291	297	291
Placed on feed during April	64	27	31	36	41
Marketed during April	53	52	36	46	54
Other disappearance during April	25	3	1	9	9
MAY					
Number on feed May 1	376	315	285	278	269
Placed on feed during May	53	39	46	44	35
Marketed during May	52	52	45	54	59
Other disappearance during May	17	14	10	13	16
JUNE					
Number on Feed June 1	360	288	276	255	229
Placed on feed during June	56	39	21	52	37
Marketed during June	64	68	58	62	52
Other disappearance during June	11	6	1	2	3
JULY					
Number on feed July 1	341	253	238	243	211
Placed on feed during July	61	31	34	45	26
Marketed during July	46	55	50	43	35
Other disappearance during July	2	2	1	7	2
AUGUST					
Number on feed August 1	354	227	221	238	200
Placed on feed during August	67	56	74	67	36
Marketed during August	46	42	39	34	35
Other disappearance during August	6	2	2	3	1
SEPTEMBER					
Number on feed September 1	369	239	254	268	199
Placed on feed during September	68	50	52	64	44
Marketed during September	46	33	34	26	27
Other disappearance during September	6	8	1	6	2
OCTOBER					
Number on feed October 1	385	248	271	300	214
Placed on feed during October	69	95	74	69	70
Marketed during October	46	27	41	28	21
Other disappearance during October	10	6	1	2	4
NOVEMBER					
Number on feed November 1	398	310	303	339	259
Placed on feed during November	60	69	59	39	40
Marketed during November	35	31	32	33	22
Other disappearance during November	3	6	2	3	7
DECEMBER					
Number on feed December 1	420	342	328	342	270
Placed on feed during December	45	37	49	40	31
Marketed during December	36	26	27	27	16
Other disappearance during December	19	10	9	4	10

CATTLE ON FEED: Inventory by class and weight group, Arizona, quarterly, January 1, 1984 - April 1, 1989

Date	Total	Steers and steer calves	Heifers and heifer calves	Weight group				
				Under 500 lbs.	500-699 lbs.	700-899 lbs.	900-1099 lbs.	1100 lbs. and over
				1,000 head				
1984								
Jan. 1	407	399	8	113	121	108	57	8
Apr. 1	390	383	7	49	103	114	113	11
July 1	341	332	9	81	85	106	68	1
Oct. 1	385	378	7	111	110	92	59	13
1985								
Jan. 1	419	414	5	70	123	128	93	5
Apr. 1	343	336	7	40	56	124	116	7
July 1	253	247	6	47	60	88	50	8
Oct. 1	248	244	4	59	82	59	44	4
1986								
Jan. 1	344	337	7	57	124	116	42	5
Apr. 1	291	283	8	43	82	102	58	6
July 1	238	230	8	27	49	73	85	4
Oct. 1	271	267	4	60	86	71	50	4
1987								
Jan. 1	343	334	9	86	124	92	38	3
Apr. 1	297	291	6	35	78	118	65	1
July 1	243	239	4	36	66	84	55	2
Oct. 1	300	296	4	90	95	70	43	2
1988								
Jan. 1	351	343	8	63	124	90	73	1
Apr. 1	291	284	7	37	59	86	100	9
July 1	211	207	4	39	43	71	55	3
Oct. 1	214	209	5	67	54	57	30	6
1989								
Jan. 1	275	265	10	43	88	81	58	5
Apr. 1	237	232	5	36	40	77	80	4

CATTLE ON FEED: Number of feedlots and marketings by capacity, Arizona, 1984-88

Year	Feedlot capacity in number of head							
	Under 15,999		16,000 - 31,999		32,000 and over		Total	
	Lots	Cattle Marketed	Lots	Cattle Marketed	Lots	Cattle Marketed	Lots	Cattle Marketed
	Number	1,000 head	Number	1,000 head	Number	1,000 head	Number	1,000 head
1984	13	51	8	238	5	281	26	570
1985	13	36	6	159	6	315	25	510
1986	10	19	6	159	6	284	22	462
1987	9	17	6	177	5	266	20	460
1988	8	15	5	109	5	304	18	428

CATTLE ON FEED: Arizona, by counties, monthly, 1984-89

County	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept.1	Oct. 1	Nov. 1	Dec. 1
						1,000 Head						
						1984						
Maricopa	93	128	125	122	120	117	111	113	111	112	122	140
Pinal	187	145	147	136	125	112	104	113	130	140	142	147
Yuma	122	130	129	129	128	127	123	125	125	130	131	131
Other	5	4	3	3	3	4	3	3	3	3	3	2
ARIZONA	407	407	404	390	376	360	341	354	369	385	398	420
						1985						
Maricopa	140	132	127	112	105	93	81	74	74	78	99	108
Pinal	142	129	121	108	100	92	79	70	84	90	120	139
Yuma	133	126	125	119	107	99	91	82	80	80	91	95
Other	4	3	3	4	3	4	2	1	1	0	0	0
ARIZONA	419	390	376	343	315	288	253	227	239	248	310	342
						1986						
Maricopa	105	102	92	89	95	92	83	79	87	87	100	112
Pinal	140	133	124	113	103	94	75	66	87	96	114	120
Yuma	99	99	96	89	87	90	80	76	80	88	89	96
Other	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	344	334	312	291	285	276	238	221	254	271	303	328
						1987						
Maricopa	105	92	81	70	61	55	48	45	52	60	67	66
Pinal	133	139	137	131	116	106	106	106	117	131	157	164
Yuma	105	98	100	96	101	94	89	87	99	109	115	112
Other	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	343	329	318	297	278	255	243	238	268	300	339	342
						1988						
Maricopa	68	68	65	60	54	43	37	40	46	55	64	68
Pinal	169	162	142	130	111	95	81	71	70	71	96	101
Yuma	113	111	105	101	104	91	92	88	83	88	98	101
Other	1	0	0	0	0	0	1	1	0	0	1	0
ARIZONA	351	341	312	291	269	229	211	200	199	214	259	270
						1989						
Maricopa	71	67	61	57								
Pinal	101	94	92	90								
Yuma	103	99	94	90								
Other	0	0	0	0								
ARIZONA	275	260	246	237								

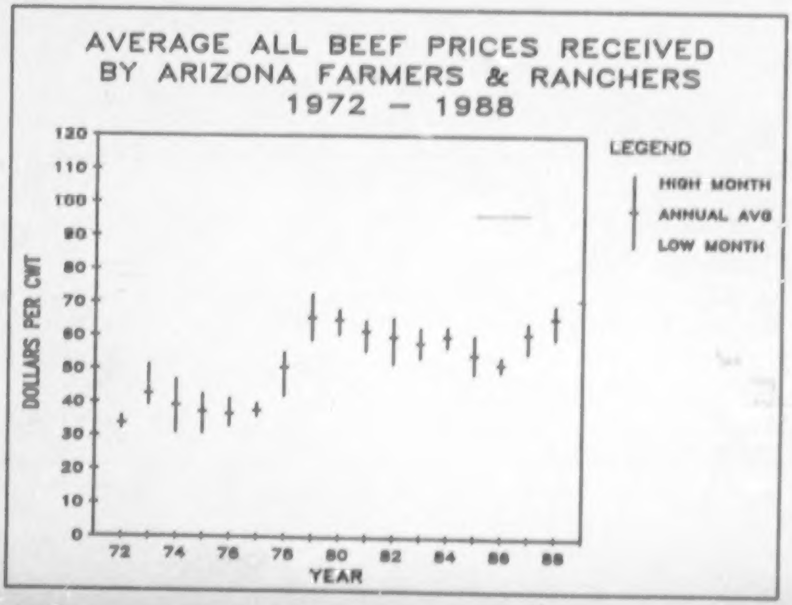
FED CATTLE MARKETED FOR SLAUGHTER: Arizona, by counties, 1984-88

Year	Maricopa	Pinal	Yuma	Other	Total
			1,000 head		
1984	209	197	155	9	570
1985	187	166	153	4	510
1986	173	174	115	0	462
1987	136	188	136	0	460
1988	85	193	149	1	428

ALL CATTLE: Monthly and marketing year average prices received by producers, Arizona, 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Marketing year average
							Dollars per cwt.						
							ALL BEEF CATTLE 1/						
1984	62.10	61.60	62.20	63.00	59.60	59.70	61.20	60.00	58.00	57.80	60.10	57.10	60.30
1985	59.40	60.50	59.70	56.60	55.40	54.50	51.50	49.50	49.10	52.50	53.30	53.40	54.70
1986	52.50	51.40	52.80	49.80	51.40	50.60	54.00	54.00	52.40	52.90	50.20	51.10	51.90
1987	55.30	58.70	60.60	63.10	64.20	63.50	60.80	61.10	61.60	57.60	57.60	59.90	61.00
1988	59.50	65.10	68.00	66.00	69.40	65.50	64.50	67.50	65.70	65.50	64.00	61.90	65.80
							STEERS AND HEIFERS						
1984	66.30	64.70	66.40	65.50	62.70	62.00	63.00	61.80	60.70	61.60	64.00	63.70	63.40
1985	63.30	63.70	61.90	58.70	57.80	56.20	52.40	52.80	52.40	57.60	60.40	60.60	57.90
1986	58.60	55.80	55.50	52.90	53.70	52.40	55.10	56.60	55.40	57.60	56.70	57.90	55.20
1987	58.50	62.40	62.80	66.70	67.50	65.80	63.30	65.50	66.80	64.60	64.40	64.00	64.60
1988	65.90	68.00	69.60	70.70	72.50	68.20	66.40	69.60	69.20	71.80	72.80	71.40	69.80
							CALVES						
1984	60.40	60.50	60.70	59.20	56.90	54.60	57.50	62.20	57.90	59.70	57.00	60.50	59.40
1985	66.60	68.90	66.50	66.70	64.70	57.30	51.00	56.20	58.30	63.60	60.50	60.70	63.20
1986	59.50	60.70	55.80	54.50	52.50	51.20	54.30	59.70	63.10	60.70	62.60	60.60	58.60
1987	65.10	68.80	69.40	72.20	72.70	72.50	73.60	81.70	87.40	79.90	81.60	78.70	74.90
1988	87.00	90.60	86.90	86.10	87.20	78.20	80.00	88.10	86.90	86.90	89.40	88.40	87.30
							COWS						
1984	35.90	39.50	42.40	43.70	36.70	38.40	36.50	39.20	37.60	38.40	33.70	34.90	38.30
1985	39.10	41.60	41.30	40.00	36.50	35.10	34.00	34.30	33.20	33.10	32.50	32.80	35.70
1986	34.10	35.90	36.80	34.00	33.70	33.30	33.40	36.70	37.90	34.90	34.00	35.00	35.00
1987	40.00	41.80	43.00	42.20	41.40	41.70	42.50	44.00	45.70	43.00	42.10	43.30	42.60
1988	46.90	48.10	48.70	46.90	45.40	42.60	43.40	46.00	44.40	43.80	43.40	44.90	45.20

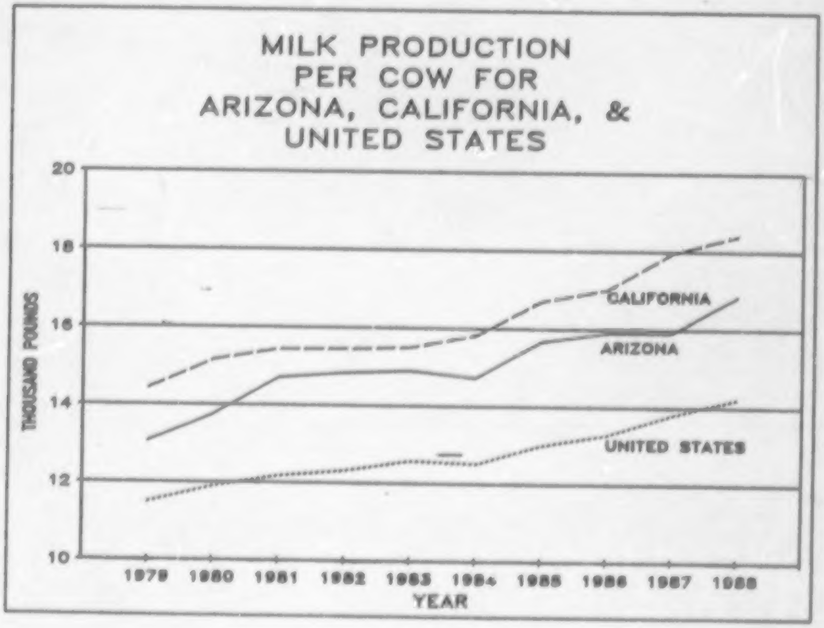
1/ Includes steers and heifers, and cows.



DAIRY

In Arizona, the average number of cows milked decreased a slight 1 percent in 1988 to a level of 89,000 head. This is down from last year's record average of 90,000 head. Milk production per cow surpassed last year's record high with an average of 16,854 pounds per milk cow being produced. This was an increase of 943 pounds from 1987, and moved Arizona from fifth to fourth in National State rankings of milk production per cow. Arizona's total milk production also hit a record high in 1988 with 1.51 million pounds being produced. The sharp 68 million pounds increase in Arizona did in fact concur with the national trend of increased milk production. Total U.S. milk production was up 2,970 million pounds from 1987, primarily as a result of increased output per cow. The Arizona increase in milk production was also the result of increased production per cow.

Producer's cash receipts from milk were up $2.232 million in 1988 to $184.8 million. This increase occurred despite a 40 cent decrease in price per cwt. of milk from 1987.


MILK PRODUCTION
PER COW FOR
ARIZONA, CALIFORNIA, &
UNITED STATES

DAIRY: Milk cows and milk production, Arizona, quarterly, 1984-88

Year	Milk Cows					Milk Production				
	January-March	April-June	July-September	October-December	Average number during year	January-March	April-June	July-September	October-December	Annual Total
			1,000 head					Million lbs.		
1984	83	83	82	82	83	329	330	263	300	1,222
1985	84	86	87	88	86	335	360	315	338	1,348
1986	89	87	83	84	86	368	363	303	334	1,368
1987	89	91	91	90	90	366	371	331	364	1,432
1988	90	89	88	90	89	406	403	337	371	1,517

DAIRY: Milk cows, production of milk and milkfat, and value, Arizona, 1984-88

Year	Milk cows 1/	Production per milk cow		Milkfat percent	Total production		Value	
		Milk	Milkfat		Milk	Milkfat	Fluid milk per 100 lbs.	Total milk produced 2/
	1,000 head	Lbs.			Million lbs.		Dollars	1,000 dol.
1984	83	14,723	532	3.61	1,222	44.1	13.80	169,136
1985	86	15,674	580	3.70	1,348	49.9	13.10	176,671
1986	86	15,907	587	3.69	1,368	50.5	12.70	173,736
1987	90	15,911	592	3.72	1,432	53.3	12.80	183,296
1988	89	16,854	632	3.75	1,500	56.3	12.40	186,000

1/ Average number on farms during year, excluding heifers not yet fresh.

2/ Includes sales of milk, cream and butter, value of milk used for home consumption and value of milk fed to calves.

MILK USED AND MARKETED BY PRODUCERS: Arizona, 1984-88

Year	Milk used where produced			Milk marketed by producers		
	Fed to calves	Used for milk, cream, and butter	Total	Sold to plants and dealers	Sold directly to consumers	Total
				Million lbs.		
1984	6	1	7	1,210	5	1,215
1985	6	1	7	1,340	1	1,341
1986	6	1	7	1,361	1/	1,361
1987	5	1	6	1,426	1/	1,426
1988	8	2	10	1,490	1/	1,490

1/ Sales nominal, Included with milk sold to plants and dealers.

MILK PRODUCTION: Marketings and income, Arizona, 1984-88

Year	Combined marketings of milk and cream				Used for milk, cream and butter where produced		Gross producer income
	Milk utilized	Average returns		Cash receipts from marketings	Milk utilized	Value	
		Per 100 lbs. of milk	Per lb. of milkfat				
	Million lbs.	Dollars		1,000 dol.	Million lbs.	1,000 dol.	
1984	1,215	13.84	3.83	168,166	1	138	168,304
1985	1,341	13.11	3.54	175,754	1	131	175,885
1986	1,361	12.70	3.44	172,847	1	127	172,974
1987	1,426	12.80	3.44	182,528	1	128	182,656
1988	1,490	12.40	3.31	184,760	2	248	185,008

GRAIN AND OTHER CONCENTRATES: Quantity fed to milk cows and value, Arizona, 1984-88 1/

Year	Quantity fed to milk cows: Total	Quantity fed to milk cows: Per cow	Quantity fed to milk cows: Per cwt. of milk produced	Value of feed fed per cwt.	Feed value per cwt. of milk produced
	1,000 tons	Pounds	Pounds	Dollars	Dollars
1984	287	6,920	47	8.00	3.76
1985	310	7,210	46	7.14	3.28
1986	322	7,480	47	6.72	3.16
1987	351	7,800	49	6.22	3.05
1988	360	8,090	48	6.88	3.27

1/ Estimates for all places where milk produced, either for sale or for home use.

ICE CREAM: Production, Arizona, monthly and annual, 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
							1,000 gallons						
1984	534	587	555	551	645	586	596	620	521	559	418	393	6,565
1985	458	550	518	605	635	618	612	591	546	572	397	435	6,537
1986	639	468	672	615	619	547	627	639	520	570	352	443	6,711
1987	450	594	595	688	642	707	679	619	540	592	460	340	6,906
1988	430	674	726	584	611	506	605	700	707	628	423	418	7,012

ICE MILK: Production, Arizona, monthly and annual, 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
							1,000 gallons						
1984	284	305	360	364	434	400	402	434	319	354	286	256	4,198
1985	331	310	388	416	472	435	431	439	412	443	326	320	4,723
1986	399	377	426	472	460	454	475	458	434	436	366	377	5,134
1987	351	441	490	517	515	576	611	494	518	488	394	361	5,756
1988	362	459	512	503	512	518	451	553	514	482	439	438	5,743

MILK SHERBET: Production, Arizona, monthly and annual, 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
							1,000 gallons						
1984	45	55	45	56	55	64	53	80	48	54	32	39	626
1985	48	40	49	68	80	63	54	72	48	45	32	33	632
1986	79	33	58	44	53	86	70	51	39	51	29	45	638
1987	34	51	67	72	59	68	84	62	71	38	41	28	675
1988	39	56	60	52	63	65	79	56	50	55	34	32	641

DAIRY PLANTS: Arizona, 1984-88 1/

1984	1985	1986	1987	1988
		Number		
8	8	7	7	7

1/ Plants manufacturing one or more dairy products.

SHEEP AND LAMBS

The number of sheep and lambs on Arizona farms and ranches on January 1, 1989 totaled 284,000 head, unchanged from the same date a year earlier. Stock sheep accounted for 84 percent of the inventory; the remainder were sheep and lambs on feed. The number of sheep and lambs on feed as of January 1, 1989 totaled 45,000 head, slightly below the 47,000 on feed as of January 1, 1988. The 1988 lamb crop of 125,000 was up 25 percent from 1987.

Sheep and lamb marketings during 1988 totaled 184,000 head, an increase of 15 percent from a year earlier. There were 19.4 million pounds marketed during 1988. Cash receipts showed a sharp increase to $12.5 million, up 40 percent over the $8.9 million received during 1987. Contributing to the increased cash receipts were higher sheep prices which averaged $26.70 per hundredweight, up 25 percent, and an average lamb price of $80.70 per hundredweight, up 8 percent.

Wool production decreased 10 percent from 1987 to 1.75 million pounds. The number of head shorn decreased slightly to 267,000 and the average fleece weight per head dropped to 6.6 pounds per head. The price per pound of wool increased a sharp 57 percent to $1.08 per pound resulting in a value of production for all wool shorn of $1.89 million, up 40 percent from 1987.

SHEEP: Number of operations and inventory January 1, Arizona and United States, 1985-89 1/

Year	Arizona		United States	
	Operations	Head	Operations	Head
	Number	Thousand	Number	Thousand
1985	550	266	117,370	10,442.7
1986	600	278	115,250	9,983.1
1987	550	283	114,840	10,334.2
1988	500	284	115,490	10,704.4
1989	2/	284	2/	10,802.1

1/ An operation is any place having one or more sheep on hand during the year.
2/ Not available until January, 1990.

SHEEP AND LAMBS: Inventory, supply, and disposition, Arizona, 1984-January 1, 1989

Year	Inventory January 1	Lamb crop	Inshipments	Marketings 1/		Farm slaughter 2/	Deaths	
				Sheep	Lambs		Sheep	Lambs
	1,000 head							
1984	306	125	99	131	88	20	15	10
1985	266	112	135	118	75	20	10	12
1986	278	112	138	157	52	15	10	11
1987	283	100	95	63	97	14	9	11
1988	284	125	93	49	135	13	9	12
1989	284							

1/ Includes animals for slaughter market, as well as younger animals shipped to other states for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.
2/ Excludes custom slaughter for farmers at commercial establishments.

SHEEP AND LAMBS: Production and income, Arizona, 1984-88

Year	Production 1/	Marketings 2/	Average price per 100 pounds		Value of production	Cash receipts 3/	Value of home consumption	Gross income
			Sheep	Lambs				
	1,000 lbs.		Dollars		1,000 dol.			
1984	11,640	23,000	17.90	60.70	4,288	7,511	626	8,137
1985	10,910	18,795	19.70	69.50	3,917	6,885	931	7,816
1986	9,790	21,190	15.30	64.60	3,445	5,554	507	6,061
1987	10,540	17,260	21.40	74.80	4,533	8,873	605	9,478
1988	12,525	19,380	26.70	80.70	9,003	12,464	660	13,124

1/ Includes total live weight of livestock marketed, farm slaughter, and custom slaughter consumed on farms where produced, minus live weight of inshipments, and any increase or decrease in live weight of inventory.
2/ Includes animals for slaughter market, as well as younger animals shipped to other states for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.
3/ Receipts from marketings and sale of farm slaughter.

SHEEP AND LAMBS: Number on farms, Arizona, by counties, January 1, 1985-89

County and year	Stock sheep and lambs 1/	Sheep and lambs on feed 2/	All sheep and lambs 1/	New crop lambs	County and year	Stock sheep and lambs 1/	Sheep and lambs on feed 2/	All sheep and lambs 1/	New crop lambs
		1,000 head					1,000 head		
APACHE					COCONINO				
1985	91	0	91	10	1985	28	0	28	2
1986	95	0	95	13	1986	29	0	29	3
1987	85	0	85	8	1987	27	0	27	2
1988	92	0	92	7	1988	31	0	31	2
1989	94	0	94	15	1989	33	0	33	6
MARICOPA					NAVAJO				
1985	35	9	44	19	1985	59	0	59	6
1986	38	6	44	22	1986	62	0	62	7
1987	26	15	41	14	1987	55	0	55	5
1988	24	17	41	13	1988	59	0	59	4
1989	18	13	31	10	1989	62	0	62	9
PINAL					YUMA				
1985	9	8	17	5	1985	2	14	16	1
1986	11	12	23	6	1986	2	11	13	1
1987	9	18	27	3	1987	5	29	34	1
1988	13	14	27	4	1988	8	15	23	3
1989	17	19	36	9	1989	7	12	19	4
OTHER COUNTIES					ARIZONA				
1985	8	3	11	2	1985	232	34	266	45
1986	9	3	12	5	1986	246	32	278	57
1987	12	2	14	4	1987	219	64	283	37
1988	10	1	11	3	1988	237	47	284	36
1989	8	1	9	3	1989	239	45	284	56

1/ Excludes new crop lambs (those born after September 30 the previous year and on hand January 1).

2/ Includes sheep and lambs being fattened for slaughter market on grain, other concentrates, or succulent pastures. Excludes stock sheep and lambs and new crop lambs.

SHEEP: By class, farm value and lamb crop, Arizona, January 1, 1985-89

Year	Stock sheep & lambs 1/		Sheep and lambs on feed 2/	All sheep and lambs	Farm value		Lamb crop	
	Ewes	Rams and wethers			Per head	Total	Breeding ewes Jan. 1	Lambs saved
		1,000 head			Dollars	1,000 dol.	1,000 head	
1985	196	36	34	266	62.00	16,492	148	112
1986	205	41	32	278	66.50	18,487	161	112
1987	185	34	64	283	68.00	19,244	144	100
1988	208	29	47	284	89.50	25,418	180	125
1989	211	28	45	284	90.00	25,560	185	3/

1/ Ewes, rams and wethers of all ages excluding new crop lambs.

2/ Excludes stock sheep and lambs and new crop lambs.

3/ Not available until January, 1990.

WOOL PRODUCTION AND VALUE: Arizona, 1984-88

Year	All sheep shorn 1/	Weight per fleece	Shorn wool production	Average price per pound	Value of production 2/
	1,000 head	Lbs.	1,000 lbs.	Cents	1,000 dol.
1984	281	7.2	2,017	51	1,029
1985	276	7.0	1,925	51	982
1986	305	6.7	2,055	53	1,089
1987	269	7.2	1,950	69	1,346
1988	267	6.6	1,750	108	1,890

1/ Includes fed sheep shorn.
2/ Equivalent to cash receipts from farm marketings.

SHEEP, LAMBS, AND WOOL: Monthly and annual average prices received by producers, Arizona, 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Marketing year average
							Dollars per cwt.						
							SHEEP						
1984	18.00	21.00	18.00	18.00	16.00	16.50	17.00	19.00	19.70	19.60	21.00	26.20	17.90
1985	25.00	31.30	25.80	22.90	20.00	19.20	16.40	22.90	21.30	17.80	16.50	27.80	19.70
1986	29.00	24.80	15.00	15.20	24.30	26.50	32.20	22.90	24.20	20.30	20.80	21.40	15.30
1987	32.50	25.60	28.70	34.90	19.20	26.10	30.80	27.20	27.60	30.80	27.50	29.30	21.40
1988	29.30	27.50	26.50	28.80	28.60	26.80	26.10	27.40	24.60	21.90	22.10	26.60	26.70
							LAMBS						
1984	59.00	58.50	58.00	60.00	60.00	60.50	60.50	62.00	64.50	64.00	64.00	64.00	60.70
1985	66.50	69.90	70.00	68.40	70.00	70.00	70.00	65.10	63.90	62.10	59.90	60.30	69.50
1986	56.30	65.00	65.50	69.00	68.20	61.90	55.50	66.50	69.40	65.90	56.80	60.50	64.60
1987	74.00	74.00	74.50	1/	79.00	79.20	73.40	73.10	69.60	66.50	63.50	70.30	74.80
1988	80.50	81.30	76.60	69.10	73.30	58.10	59.60	64.10	67.00	65.20	61.30	64.70	80.70
							WOOL						
1984	76.00	58.00	39.00	46.00	49.00	49.00	47.00	41.00	53.00	43.00	77.00	73.00	51.00
1985	75.00	75.00	61.00	36.00	40.00	41.00	63.00	45.00	48.00	66.00	67.00	64.00	51.00
1986	71.00	67.00	65.00	41.00	44.00	48.00	37.00	61.00	56.00	46.00	70.00	68.00	53.00
1987	82.00	85.00	77.00	54.00	59.00	53.00	50.00	90.00	84.00	85.00	77.00	94.00	69.00
1988	135.00	158.00	129.00	74.00	90.00	101.00	71.00	101.00	75.00	79.00	115.00	103.00	108.00

1/ Insufficient sales.

GOATS

Estimates of angora goats were begun in Arizona this past year. As of January 1, 1989, there were 100,000 head of angora goats in the state, mostly all located on the Navajo Indian Reservation. These goats had an average value of $55.00 per head for a total value of $5.5 million.

ANGORA GOATS: Number on farms and value, Arizona, January 1, 1989

Year	Goats	Farm Value	
		Per head	Total
	1,000 head	Dollars	1,000 dollars
1989	100	55.00	5,500

POULTRY

CHICKENS ON FARMS: Inventory by class, Arizona, December 1, 1984-88 1/

Year	All chickens	Hens and pullets of laying age: Hens one year and over	Hens and pullets of laying age: Pullets	Hens and pullets of laying age: Total	Pullets 3 months and over and not of laying age	Pullets under three months	Other chickens	Value per head	Total value
	1,000 birds							Dollars	1,000 dol.
1984	490	173	289	462	9	4	15	2.00	980
1985	460	298	82	380	56	9	15	1.55	713
1986	528	315	165	480	21	11	16	2.25	1,188
1987	385	221	149	370	6	4	5	1.60	616
1988	310	200	100	300	3	1	6	1.60	496

1/ Does not include commercial broilers.

CHICKENS: Lost, sold, and value of sales, Arizona 1984-88 1/

Year	Number lost 2/	Number sold	Pounds sold	Price per pound	Value of sales
	1,000 birds		1,000 lbs.	Cents	1,000 dol.
1984	61	296	1,184	5.2	83
1985	45	202	808	5.5	44
1986	66	189	756	9.0	68
1987	54	403	1,612	10.0	161
1988	61	245	980	7.0	69

1/ December 1 previous year through November 30; excludes broilers.
2/ Includes death and other losses.

LAYERS: Quarterly inventory, Arizona 1984-88 1/

Year	Layers: December - February	Layers: March - May	Layers: June - August	Layers: September - November	Layers: Average number during year
	1,000 birds				
1984	395	368	387	456	401
1985	460	455	421	385	430
1986	409	475	502	385	468
1987	425	385	380	485	389
1988	358	328	308	303	324

1/ December 1 previous year through November 30 current year.

EGGS: Production and value, Arizona, 1984-88 1/

Year	Eggs Produced: December - February	Eggs Produced: March - May	Eggs Produced: June - August	Eggs Produced: September - November	Eggs Produced: Annual total	Price per dozen	Value of production
	Million					Cents	1,000 dol.
1984	27	23	24	31	105	61.0	5,337
1985	32	26	20	21	99	53.0	4,373
1986	27	32	32	30	121	53.0	5,344
1987	26	25	25	22	98	41.0	3,348
1988	22	23	22	19	86	43.0	3,082

1/ December 1 previous year through November 30 current year.

HOGS AND PIGS

The inventory of all hogs and pigs in Arizona on December 1, 1988 totaled 130,000 head, unchanged from a year earlier. Breeding hogs were up 1,000 head from the previous year to 15,000 head while market hogs decreased 1,000 head to 115,000. Market hogs by weight group were as follows: under 60 pounds totaled 44,000 head, up 29 percent; 60-119 pounds were at 27,000 head, down 10 percent; 120-179 pounds totaled 23,000 head, down 21 percent; 180 pounds and over came in at 21,000 head, down 9 percent. Inshipments totaled 15,000 head during 1988, an increase of 6,000 head from a year earlier. Most all of the inshipments are feeder pigs.

A total of 27,000 sows farrowed during 1988 producing a pig crop of 214,000 head, a decrease of 12 percent from the pig crop of 1987. During the first half of the year (December-May), 14,000 sows farrowed with an average litter rate of 8.1 pigs, down slightly from 8.2 during the same period a year earlier. During the second half of the year (June-November), 13,000 sows farrowed with a small litter size of 7.8 pigs. This litter rate was down slightly from the average of 7.9 recorded during the same period of 1987.

Marketings totaled 215,000 head during 1988, a decline of 17 percent from the marketings of 1987. The total liveweight of the hogs marketed during 1988 came to 50.3 million pounds. The average price received for hogs during 1988 dropped sharply to $46.80 per hundredweight, a decline of 18 percent from the $57.10 received during 1987. The gross income generated by Arizona's pork industry for 1988 dropped to $23.8 million, a decline of nearly $10 million from the $33.6 million received during 1987. Commercial hog slaughter totaled 18,000 head in 1988, up from 13,900 during 1987. The majority of the hogs marketed for slaughter are shipped to California.

HOGS: Number of operations and inventory December 1, Arizona and United States, 1984-88 1/

Year	Arizona		United States	
	Operations	Head	Operations	Head
	Number	Thousand	Number	Thousand
1984	600	170	429,580	54,073
1985	650	175	391,000	52,313
1986	700	155	348,000	50,920
1987	650	130	331,620	54,620
1988	600	130	333,500	55,299

1/ An operation is any place having one or more hogs and pigs on hand during the year.

HOGS AND PIGS: Inventory, supply, and disposition, Arizona, 1984-89

Year	Inventory Dec. 1 1/	Pig crop		Inshipments	Marketings 2/	Farm slaughter 3/	Deaths
		Dec.-May	June-Nov.				
				1,000 head			
1984	150	144	137	10	258	1	12
1985	170	141	146	6	272	1	15
1986	175	125	138	3	274	1	11
1987	155	123	119	9	260	1	15
1988	130	113	101	15	215	1	13
1989	130						

1/ December 1 of previous year.

2/ Includes animals for slaughter market, as well as younger animals shipped to other states for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.

3/ Excludes custom slaughter for farmers at commercial establishments.

HOGS AND PIGS: Production and income, Arizona, 1984-88

Year	Production 1/	Marketings 2/	Average price per cwt.	Value of production	Cash receipts 3/	Value of home consumption	Gross income
	1,000 lbs.		Dollars	1,000 dol.			
1984	59,762	57,447	49.70	29,531	28,551	362	28,913
1985	59,335	59,699	46.00	27,197	27,462	304	27,766
1986	59,942	60,565	54.70	32,736	33,129	298	33,427
1987	54,480	58,200	57.10	30,967	33,232	328	33,560
1988	48,953	50,345	46.80	22,563	23,561	225	23,786

1/ Includes total live weight of livestock marketed, farm slaughter, and custom slaughter consumed on farms where produced, minus live weight of inshipments, and any increase or decrease in live weight of inventory.

2/ Includes animals for slaughter market, as well as younger animals shipped to other states for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.

3/ Receipts from marketings and sale of farm slaughter.

HOGS AND PIGS: Number on farms, Arizona, by counties, December 1, 1984-88

County and year	Hogs and pigs	County and year	Hogs and pigs	County and year	Hogs and pigs
	1,000 head		1,000 head		1,000 head
COCHISE		GRAHAM		MARICOPA	
1984	25	1984	26	1984	13
1985	29	1985	29	1985	17
1986	20	1986	24	1986	11
1987	19	1987	17	1987	12
1988	20	1988	18	1988	11
NAVAJO		PINAL		YUMA	
1984	81	1984	10	1984	5
1985	80	1985	10	1985	5
1986	85	1986	10	1986	1/
1987	71	1987	8	1987	1/
1988	71	1988	9	1988	1/
OTHER COUNTIES 2/		ARIZONA			
1984	10	1984	170		
1985	5	1985	175		
1986	5	1986	155		
1987	3	1987	130		
1988	1	1988	130		

1/ Included in other counties

2/ Includes estimates for counties not listed.

HOGS AND PIGS: Inventory by class, weight group, and farm value, Arizona, December 1, 1984-88

Year	Breeding	Market	Market hogs and pigs by weight group				All hogs	Value	
			Under 60 lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over		Per head	Total
				1,000 head				Dol.	1,000 dol.
1984	20	150	51	40	31	28	170	92.00	15,640
1985	20	155	55	45	34	21	175	79.50	13,913
1986	18	137	39	37	37	24	155	112.00	17,360
1987	14	116	34	30	29	23	130	93.50	12,155
1988	15	115	44	27	23	21	130	75.00	9,750

PIG CROP: Sows farrowed, pigs per litter, and pigs saved, Arizona, 1984-88

Year 1/	Total pig crop		December through May			June through November		
	Sows farrowed	Pigs saved	Sows farrowed	Pigs per litter	Pigs saved	Sows farrowed	Pigs per litter	Pigs saved
	Thousand	Thousand	Thousand	Number	Thousand	Thousand	Number	Thousand
1984	37	281	19	7.6	144	18	7.6	137
1985	38	287	19	7.4	141	19	7.7	146
1986	33	263	16	7.8	125	17	8.1	138
1987	30	242	15	8.2	123	15	7.9	119
1988	27	214	14	8.1	113	13	7.8	101

1/ December 1 previous year through November 30 current year.

MEAT PRODUCTION

LIVESTOCK SLAUGHTERING ESTABLISHMENTS: Arizona, January 1, 1985-89

Year	Under Federal Inspection	Other 1/	Total
		Number	
1985	9	26	35
1986	10	24	34
1987	5	24	29
1988	5	23	28
1989	6	23	29

1/ Includes State inspected and custom-exempt plants.

RED MEAT PRODUCTION: Arizona, 1984-88 1/

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total 2/
							1,000 Pounds						
1984	25,813	27,187	29,286	28,400	32,236	30,544	25,669	25,720	22,978	27,036	24,671	23,553	323,093
1985	26,434	24,277	25,997	28,704	31,115	26,743	26,591	23,598	22,131	23,449	22,437	22,925	304,401
1986	25,756	23,914	21,357	22,556	25,116	23,427	23,859	21,951	20,087	24,291	19,265	21,375	272,952
1987	21,652	18,238	21,233	23,598	21,294	24,495	23,643	19,731	20,143	20,870	19,722	23,597	258,215
1988	23,497	20,473	28,314	28,481	26,829	28,205	21,487	24,410	21,407	18,760	18,944	18,865	279,672

1/ Includes total beef, veal, pork, and lamb and mutton, excluding farm slaughter.

2/ Numbers may not add due to rounding.

COMMERCIAL CATTLE SLAUGHTER: Arizona, 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total 1/
							Number						
1984	35,000	37,900	40,200	39,300	44,900	42,400	35,500	33,900	30,600	36,000	32,600	31,500	439,800
1985	36,300	33,400	35,600	38,800	42,100	36,200	35,500	30,800	28,000	29,500	29,300	30,500	406,000
1986	35,200	31,900	30,800	34,600	38,600	35,700	36,700	34,000	30,900	37,400	31,000	34,800	411,700
1987	34,700	29,300	33,700	37,400	33,400	38,800	37,600	31,400	30,700	31,700	31,300	36,800	406,800
1988	36,800	31,900	43,700	43,400	41,500	43,500	33,100	37,500	33,000	28,900	29,800	28,900	432,000
							1,000 Lbs. Liveweight						
1984	36,966	39,709	41,971	40,999	46,944	44,014	36,499	35,270	31,929	37,336	34,224	32,757	458,619
1985	37,392	34,491	36,623	40,867	45,005	39,008	37,761	32,749	29,924	31,106	30,476	31,611	427,013
1986	36,776	33,644	32,477	36,531	40,819	37,745	38,445	35,562	32,646	39,212	31,421	34,965	430,241
1987	35,386	29,636	34,367	38,054	34,343	39,747	38,493	32,114	33,176	34,384	32,532	38,921	421,154
1988	38,299	33,525	45,832	45,958	43,389	45,905	34,805	39,646	34,559	30,270	31,021	30,540	453,747

1/ Numbers may not add due to rounding.

COMMERCIAL HOG SLAUGHTER: Arizona, 1984-1988

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total 1/
							Number						
1984	21,200	19,900	24,100	22,000	22,600	22,000	18,400	22,400	20,000	25,300	22,400	21,300	261,600
1985	22,800	19,900	22,400	22,700	21,800	17,900	21,500	21,600	23,700	28,100	24,700	23,300	270,500
1986	20,500	21,000	10,000	2,900	2,400	2,400	2,400	1,600	1,500	1,600	1,600	1,600	69,300
1987	1,100	1,000	1,300	1,400	1,100	1,200	1,100	1,000	1,200	1,200	1,200	1,100	13,900
1988	1,200	1,100	1,500	1,500	1,500	1,400	1,000	1,500	2,000	1,900	1,700	1,800	18,000
							1,000 Lbs. Liveweight						
1984	4,724	4,413	5,414	4,954	5,054	4,921	4,041	4,958	4,652	5,711	5,063	4,789	58,696
1985	5,101	4,422	5,022	5,044	4,804	3,958	4,630	4,635	5,149	6,250	5,515	5,134	59,663
1986	4,489	4,672	2,208	653	530	515	535	355	340	357	356	374	15,384
1987	255	211	289	306	257	258	226	223	274	264	273	270	3,105
1988	297	269	336	493	340	310	219	344	462	444	356	424	4,293

1/ Numbers may not add due to rounding.

COMMERCIAL SHEEP SLAUGHTER: Arizona, 1984-1988

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total 1/
							Number						
1984	200	100	300	400	200	100	100	100	200	100	100	100	2,100
1985	100	100	200	400	100	100	100	100	200	100	100	100	1,700
1986	100	100	300	300	100	100	100	100	300	200	100	100	1,800
1987	100	200	200	300	100	100	200	100	200	100	100	100	1,800
1988	100	100	200	300	100	100	100	100	100	100	0	100	1,400
							1,000 Lbs. Liveweight						
1984	19	12	36	45	25	15	10	15	27	13	12	10	241
1985	15	11	23	44	11	12	5	9	21	14	6	6	178
1986	9	12	28	38	10	7	16	14	25	19	8	8	195
1987	10	18	25	35	13	9	14	10	19	13	7	8	183
1988	14	11	28	34	13	9	9	9	16	10		8	164

1/ Numbers may not add due to rounding.

HONEY

HONEY: Number of colonies, yield, production, and value, Arizona, 1986-1988 1/

Year	Number of colonies	Yield per colony	Production	Average price per pound	Value of production
	1,000	Pounds	1,000 lbs.	Cents	1,000 dol.
1986	77	50	3,850	52	2,002
1987	73	47	3,431	52	1,784
1988	73	49	3,577	50	1,789

1/ For producers with five or more hives.

FARM LABOR

The farm employment and wage rate estimates are for the week that includes the 12th of the month. This corresponds to the week specified in general employment and wage series of other Government agencies.

Self-employed workers are defined as the operator and others who work on the farm without pay, but share in the returns from the farm. This concept was adopted in 1982 to provide data users with an agricultural series analogous with other industrial series. With the adoption of the self-employed category, all active partners working on the farm are counted as self-employed, whereas prior to 1982 only one was counted as the operator and the others were listed in the unpaid family category. Self-employed workers are counted if they work at least 1 hour during the survey week. Unpaid workers must work at least 15 hours or more to be counted.

Hired workers include both family members and other workers who are paid by the farm or ranch operator for working on agricultural jobs for 1 hour or more during the survey week. Workers paid by a crew leader or agricultural service firm hired by the farm or ranch operator to perform specific tasks are not included in the number of hired workers or wage rate statistics. A separate tabulation of these agricultural service workers is maintained only for the Nation, California, and Florida.

FARM WAGE RATES: Arizona, Mountain III Region, by survey week, July 1984-April 1989 1/

Survey week and year	All hired workers	Type of work					Method of pay		
		Field	Livestock	Combined field and livestock	Super-visory	Other	Hourly	Piece rate 2/	Other
					Dollars per hour				
ARIZONA									
1984									
July 8-14	4.22	3.87	4.15	3.92	6.17	4.75	3.93		5.28
October 7-13	4.80	4.61	4.17	4.52	6.42	5.22	4.51		5.61
MOUNTAIN III 3/									
1985									
January 6-12	4.70	4.68	4.26	4.48	6.52	4.79	4.13	5.94	5.31
April 7-13	4.41	4.15	4.15	4.15	6.14	4.75	4.25	4/	4.54
July 7-13	4.30	3.76	4.14	3.89	6.64	4/	3.92	4/	4.89
October 6-12	4.78	4.90	4.44	4.69	6.53	4.57	4.59	4/	5.09
1986									
January 12-18	4.94	4.41	4.64	4.51	7.19	5.21	4.55	5.22	5.68
April 6-12	4.93	4.73	4.29	4.59	6.89	5.10	4.52	6.15	5.72
July 6-12	4.51	3.99	4.01	3.99	6.81	5.04	4.28	4/	5.19
October 12-18	5.10	5.00	4.08	4.68	6.81	5.33	4.79	4/	5.92
1987									
January 11-17	4.86	4.30	4.51	4.40	7.37	5.05	4.46	4/	5.97
April 12-18	4.86	4.50	4.29	4.45	7.37	7.88	4.36	4/	5.53
July 12-18	4.34	4.07	4.09	4.07	6.56	4/	4.13	4/	4.90
October 11-17	4.85	4.51	4.11	4.36	7.52	4/	4.51	6.32	5.20
1988									
January 10-16	5.12	4.54	4.53	4.54	7.53	7.10	5.25	6.50	4.53
April 10-16	5.13	4.92	4.59	4.79	7.97	4/	5.02	5.85	4.97
July 10-16	4.78	4.18	4.63	4.33	7.07	6.33	4.48	4/	5.31
October 9-15	5.10	4.76	4.78	4.77	7.39	4/	4.90	4/	5.62
1989									
January 8-14	5.04	4.68	4.57	4.64	6.47	6.78	4.77	4/	5.42
April 9-15	5.33	4.82	5.03	4.90	7.44	7.19	4.63	4/	6.71

1/ Excludes agricultural service workers.
2/ Not estimated prior to 1985.
3/ Arizona wage rates not estimated separately after 1984. Mountain III region includes Arizona and New Mexico.
4/ Insufficient data for this category.

FARM LABOR: Arizona, Mountain III Region, by survey week, July 1984-April 1989 1/

Survey week and year	Number of workers							Hours worked per worker		
	Hired			Other			Total all	Self-employed	Unpaid	Hired
	150 days or more	149 days or less	Total	Self-employed	Unpaid	Total				
				Thousands					Hours	
ARIZONA										
1984										
July 8-14	11.0	4.0	15.0	3.5	11.0	14.5	29.5	47.4	29.6	55.5
October 7-13	8.0	3.0	11.0	3.0	11.0	14.0	25.0	50.2	40.0	48.1
MOUNTAIN III 2/										
1985										
January 6-12	16.0	3.0	19.0	7.0	18.0	25.0	44.0	35.4	27.0	43.2
April 7-13	16.0	4.0	20.0	8.0	19.0	27.0	47.0	45.1	34.8	47.1
July 7-13	13.0	5.0	18.0	11.0	20.0	31.0	49.0	46.8	41.1	44.0
October 6-12	14.0	4.0	18.0	12.0	17.0	29.0	47.0	37.7	30.0	40.3
1986										
January 12-18	16.0	2.0	18.0	11.0	18.0	29.0	47.0	38.5	32.3	45.6
April 6-12	14.0	4.0	18.0	10.0	16.0	26.0	44.0	36.4	34.5	46.5
July 6-12	12.0	5.0	17.0	10.0	22.0	32.0	49.0	40.7	29.5	48.5
October 12-18	11.0	3.0	14.0	10.0	22.0	32.0	46.0	38.3	40.4	48.2
1987										
January 11-17	15.0	2.0	17.0	10.0	21.0	31.0	48.0	39.6	36.2	44.6
April 12-18	19.0	4.0	23.0	10.0	22.0	32.0	55.0	44.6	40.2	46.8
July 12-18	17.0	5.0	22.0	10.0	23.0	33.0	55.0	48.4	43.8	54.3
October 11-17	14.0	2.0	16.0	10.0	24.0	34.0	50.0	43.8	34.7	44.0
1988										
January 10-16	15.0	2.0	17.0	12.0	22.0	34.0	51.0	38.0	37.3	47.0
April 10-16	15.0	5.0	20.0	12.0	22.0	34.0	54.0	39.0	34.7	46.7
July 10-16	14.0	3.0	17.0	13.0	23.0	36.0	53.0	37.7	37.0	51.0
October 9-15	15.0	3.0	18.0	12.0	25.0	37.0	55.0	33.5	32.9	43.3
1989										
January 8-14	12.0	1.0	13.0	11.0	22.0	33.0	46.0	27.0	35.1	46.9
April 9-15	13.0	2.0	15.0	12.0	23.0	35.0	50.0	28.8	30.2	48.6

1/ Excludes agricultural service workers.

2/ Arizona number of workers not estimated separately after 1984. Mountain III region includes Arizona and New Mexico.

INTERNATIONAL TRADE

It is not possible under present methods of statistical measurement to determine what amount of Arizona's production is actually sold abroad. No reliable system of reporting this information has yet been designed, and no official series exists. If such figures were available they would be of little use to farm analysts and producers unless they bore some regular relationship to the state's annual agricultural production.

The alternative that is usually taken is to impute to each state a share of U.S. exports proportional to its share of total U.S. production. The export values appearing in the following table were calculated in this manner for the years 1983-84 through 1987-88. The ratio of Arizona production to U.S. production for each commodity listed was multipled by the value of U.S. exports of that commodity. The same procedure can also yield an export value share for the southwest states taken together. While in certain cases the actual export value can be found to differ from the imputed export share, the defense of the calculation rests on the principle that supplies of a given commodity from one state or another are essentially interchangeable in domestic and foreign markets.

To make the apportionment of exports to states more realistic, data for certain groups such as feed grains were limited to states that account for 90 percent of the output. It was also assumed that a state would share in exports only if it had an apparent surplus. The latter involves computing grain-consuming animal units and the amount of grain needed to sustain those number.

For a detailed analysis see, Arizona and the U.S. Foreign Trade in Agricultural Commodities, by Robert Rothenberg and Jimmye S. Hillman, University of Arizona, College of Agriculture, July 1983.

AGRICULTURAL EXPORTS: Arizona's equivalent share of value, by commodity group, fiscal years 1983/84-1987/88 1/

COMMODITY GROUP	1983/84	1984/85	1985/86	1986/87	1987/88
			Million dollars		
Wheat and products	87.9	26.4	15.8	19.7	21.6
Cotton, including linters	238.9	179.6	53.4	121.0	152.6
Cottonseed and products	11.0	13.7	8.4	4.6	7.8
Fruits and preparations	36.6	39.2	45.6	39.3	38.0
Vegetables and preparations	16.2	13.6	15.0	15.2	21.9
Live animals and meat (excludes poultry)	8.2	11.0	11.6	14.0	19.2
Hides and skins	11.4	13.7	14.3	15.8	18.6
Fats, oils, and greases	6.8	7.1	5.2	4.4	5.9
Dairy products	3.2	3.2	3.4	4.2	4.9
Other	11.6	10.4	7.9	11.4	13.4
ARIZONA	431.8	317.8	180.5	249.7	303.9
UNITED STATES	38,026.8	31,200.8	26,312.0	27,876.0	35,334.3

1/ Fiscal years October 1-September 30.

Source: United States Department of Agriculture, Economic Research Service; Foreign Agriculture Trade of the United States.

VALUE OF U.S. FOREIGN TRADE AND TRADE BALANCE: Agricultural and nonagricultural, 1983/84-1987/88 1/

Year	Agricultural	Nonagricultural	Total	Agricultural percent of total
		Million dollars		Percent
U.S. EXPORTS 2/				
1983/84	38,027	170,014	208,041	18
1984/85	31,201	179,236	210,437	15
1985/86	26,307	176,631	202,938	13
1986/87	27,876	202,911	230,787	12
1987/88	35,334	259,013	294,347	12
U.S. IMPORTS 3/				
1983/84	18,916	297,736	316,652	6
1984/85	19,740	313,722	333,462	6
1985/86	20,875	342,855	363,730	6
1986/87	20,650	367,374	388,024	5
1987/88	21,011	409,141	430,152	5
TRADE BALANCE				
1983/84	19,111	-127,722	-108,611	
1984/85	11,461	-134,486	-123,025	
1985/86	5,432	-166,224	-160,792	
1986/87	7,226	-164,463	-157,237	
1987/88	14,323	-157,237	-135,805	

1/ Fiscal years October 1-September 30.

2/ Domestic exports, including Defense Department Grant-Aid.

3/ Imports for consumption, customs value basis.

Source: U.S. Foreign Agricultural Trade, Statistical Report, Economic Research Service.

COTTON SUPPLY AND USE: World, United States, major exporters and importers; marketing years 1986/87, and 1987/88 1/

Region	Supply			Use		Ending stocks
	Beginning stocks	Production	Imports	Mill use	Exports	
			Million 480 pound bales			
			1986-87			
World	47.17	70.44	25.58	82.40	25.96	34.53
United States	9.35	9.73	2/	7.45	6.68	5.03
Total foreign	37.83	60.70	25.58	74.95	19.28	29.51
Major exporters 3/	23.58	41.55	1.11	37.00	13.16	15.88
China	17.93	16.30	0.02	20.20	3.17	10.87
Pakistan	0.09	6.06	2/	2.99	2.88	0.91
USSR	2.26	12.16	0.37	9.35	3.46	1.97
Major importers 3/	4.55	1.41	19.36	18.58	1.04	5.63
Japan	0.52	--	3.69	3.45	--	0.76
			1987-88 (Estimated)			
World	34.53	80.41	24.35	83.28	23.67	32.10
United States	5.03	14.76	2/	7.62	6.58	5.77
Total foreign	29.51	65.65	24.35	75.67	17.09	26.33
Major exporters 3/	15.88	45.03	1.06	37.48	11.17	13.09
China	10.87	19.50	0.09	20.00	2.32	8.14
Pakistan	0.91	6.76	2/	3.36	2.38	1.74
USSR	1.97	11.35	0.45	9.30	3.50	0.97
Major importers 4/	5.63	1.25	18.04	18.44	0.75	5.64
Japan	0.76	--	3.43	3.48	--	0.71

1/ Marketing year beginning August 1. Totals may not add and trade and stocks may not balance due to rounding, a small quantity destroyed, and other factors.

2/ Less than 5,000 bales.

3/ Australia, China, Central America, Egypt, Mexico, Pakistan, Sudan, Turkey, and the USSR.

4/ Eastern Europe, Western Europe, Japan, Hong Kong, Republic of Korea, and Taiwan.

Source: United States Department of Agriculture, Agricultural Marketing Service, Cotton Division, Market News Branch; Weekly Cotton Market Review.

WEATHER

Rainfall amounts during 1988 averaged slightly above normal at the weather reporting stations in Arizona. There were ten stations reporting above average rainfall with eight stations reporting below average. The station with the largest increase over normal was Douglas with 17.48 inches of rainfall, 5.32 inches above normal. Prescott showed the largest decrease from normal with a total of 14.1 inches, 4.74 inches below normal.

Rainfall statistics vary considerably within Arizona because of the diverse geographic regions and elevations. Yuma can expect the lowest annual rainfall, only 2.65 inches, while McNary, with 27.24 inches, will usually receive the most precipitation of any reporting station. The majority of the state's precipitation occurs in July and August during the monsoons.

The annual average temperature was above normal at all reporting stations during 1988. Phoenix showed the largest departure from normal with an average temperature of 76 degrees, 4.8 degrees above normal. Yuma has the highest long-term average temperature at 73.9 degrees. The reporting station with the lowest average temperature during 1988 was the Grand Canyon with 46.3 degrees. Flagstaff has the lowest long-term average temperature at 45.4 degrees.

Weather during January thru March was characterized by above normal temperatures and below average rainfall. By the end of March, ranges were in need of rain with very dry conditions reported throughout the state. An unusual event occurred in early March when a thunderstorm moved through Maricopa county with three separate sightings of funnel clouds north of Phoenix. The temperature hit 100 degrees on March 26th in Phoenix, the earliest ever for the first 100 degree day of the season.

During the months of April, May, and June, temperatures continued to average above normal. However, in April all reporting stations experienced above normal rainfall. This rainfall, coupled with several weeks of cooler temperatures, slowed the development of the state's cotton crop and necessitated some replanting. A late spring freeze in the Willcox area on the morning of May 2nd, virtually destroyed the apple crop and damaged tree nut crops. The hottest week of the year occurred during June 19-25 when temperatures hit 116 in Phoenix, 115 in Casa Grande and Yuma, and 114 in Parker and Tucson.

Typical monsoons developed over the state during July and August. The heaviest thunderstorm activity occurred during August with most reporting stations recording above average rainfall. Drier air moved into northern Arizona on the morning of September 3rd, slowly moving across the state, signaling the end of the monsoons. The combination of cooler temperatures in September and the rains during August resulted in some of the best grazing conditions in the past ten years in some areas of the state.

Temperatures during October thru December continued to average above normal. The first major winter storm moved into the state on November 14th bringing rain, snow, and sharply cooler air. Another very large winter storm crossed the state on Christmas day with light snow falling as low as 2,000 feet in south central and southeastern areas of the state. At the end of the year, ranges were providing average to above average feed supplies.

FREEZE DATES: Last 32^0 temperature in spring and first in fall, Arizona, 1984-88

Year	Last in spring	First in fall	Last in spring	First in fall	Last in spring	First in fall
	AGUILA		BUCKEYE		CASA GRANDE	
1984	Mar. 7	Nov. 9	Feb. 21	Nov. 26	Apr. 29	Nov. 26
1985	Mar. 30	Nov. 13	Feb. 8	Nov. 20	Mar. 4	Nov. 14
1986	Feb. 21	M	Feb. 11	Dec. 11	Feb. 11	Dec. 11
1987	M	Nov. 27	Feb. 21	Dec. 14	Jan. 22	Dec. 14
1988	Mar. 15	Nov. 16	Mar. 13	Nov. 20	Mar. 12	Nov. 30
	CHANDLER HEIGHTS		DOUGLAS		FLAGSTAFF	
1984	Feb. 27	Nov. 26	Apr. 30	Nov. 10	June 9	Sept. 29
1985	Mar. 30	Nov. 20	Apr. 2	Nov. 14	June 4	Sept. 12
1986	Feb. 11	Dec. 11	Mar. 20	Nov. 9	May 19	Sept. 11
1987	Jan. 24	Nov. 26	Apr. 5	Nov. 11	May 30	Sept. 14
1988	Mar. 15	Nov. 19	May 2	Nov. 15	May 31	Sept. 13
	GILA BEND		GRAND CANYON		KINGMAN	
1984	Feb. 17	Nov. 27	June 8	Oct. 2	Apr. 27	Nov. 9
1985	Feb. 7	1/	June 4	Sept. 12	Mar. 30	Nov. 13
1986	1/	1/	May 18	Sept. 24	Mar. 18	Nov. 7
1987	Jan. 22	Dec. 27	May 29	Sept. 14	Apr. 5	Nov. 16
1988	Jan. 23	Nov. 21	May 31	Sept. 13	Mar. 29	Nov. 15
	MCNARY		PARKER		PAYSON	
1984	May 8	Oct. 6	Feb. 24	Nov. 27	May 1	Oct. 16
1985	June 2	Sept. 12	Feb. 7	Nov. 20	May 14	Nov. 2
1986	June 10	Sept. 11	Feb. 10	Dec. 11	May 9	Oct. 13
1987	June 18	Sept. 14	Jan. 17	Dec. 26	May 27	Nov. 11
1988	May 31	Sept. 23	Jan. 21	Dec. 28	May 31	Nov. 10
	PHOENIX		PRESCOTT		SAFFORD	
1984	1/	1/	Apr. 30	Oct. 16	Apr. 3	Nov. 18
1985	Feb. 5	1/	Apr. 20	Oct. 15	Mar. 31	Nov. 14
1986	1/	1/	May 7	Oct. 12	Feb. 23	Nov. 8
1987	Jan. 19	Dec. 25	Apr. 20	Nov. 10	Mar. 30	Nov. 13
1988	1/	Dec. 27	May 7	Nov. 15	Apr. 3	Nov. 16
	TUCSON		WILLCOX		WINDOW ROCK	
1984	Feb. 27	Nov. 26	Apr. 30	Nov. 2	May 9	Oct. 15
1985	Mar. 4	Nov. 15	Apr. 2	Nov. 7	May 14	Sept. 12
1986	Feb. 11	Dec. 1	May 9	Nov. 6	May 19	Oct. 4
1987	Feb. 28	Nov. 26	Apr. 14	Nov. 7	May 27	Oct. 16
1988	Mar. 13	Nov. 19	May 7	Nov. 13	May 21	Oct. 31
	WINSLOW		YUMA			
1984	Apr. 29	Oct. 16	1/	1/		
1985	Apr. 27	Nov. 2	1/	1/		
1986	Apr. 27	Oct. 13	1/	1/		
1987	Apr. 20	Nov. 9	Jan. 18	Dec. 26		
1988	May 2	Nov. 12	1/	Dec. 28		

1/ No low temperature of 32^0 or less.

M- Missing

Source: United States Department of Commerce, National Oceanic and Atmospheric Administration; Climatological Data.

MEAN MONTHLY TEMPERATURE: Arizona, 1988 and long-term average 1/

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
						Degrees Fahrenheit							
Aguila 2/	M	M	55.8	M	70.4	80.7	87.8	83.6	75.8	73.0	55.6	46.4	3/ 69.9
Buckeye	52.0	59.3	63.6	69.6	78.4	88.3	94.0	91.2	82.0	78.3	60.5	52.4	72.5
	51.2	55.6	60.2	67.2	75.8	85.0	92.0	89.6	83.5	72.0	59.2	51.9	70.3
Casa Grande	51.0	58.3	62.0	68.6	77.2	87.8	91.4	88.0	81.0	76.9	60.2	51.6	71.2
	51.1	55.1	59.9	67.1	75.9	85.4	91.4	88.8	83.2	72.2	59.3	51.8	70.1
Chandler Heights 2/	50.4	57.7	61.9	68.2	77.7	87.1	91.1	88.7	81.5	76.9	59.5	51.7	71.0
Douglas	45.1	49.7	52.5	58.9	68.2	77.6	79.0	76.8	71.0	66.2	53.2	44.0	61.9
	44.9	47.6	52.5	59.7	67.5	76.9	79.1	76.9	73.1	63.3	51.9	45.3	61.6
Flagstaff	29.1	34.2	37.4	44.0	50.8	61.5	67.4	64.3	55.9	52.5	36.9	27.9	46.8
	28.2	30.7	34.5	41.6	49.9	59.2	66.1	63.8	57.5	47.2	36.3	29.8	45.4
Gila Bend	53.1	60.8	64.3	70.6	79.0	89.4	94.6	92.4	84.6	80.3	62.6	54.1	73.8
	53.0	57.1	61.8	69.2	78.2	87.3	94.0	91.8	86.4	74.8	61.8	53.9	72.4
Grand Canyon 2/	26.6	33.8	35.4	42.7	50.5	62.4	67.9	64.1	56.2	52.6	35.7	28.1	46.3
Kingman	41.8	48.7	51.5	57.2	66.5	78.0	84.8	79.3	72.6	69.7	52.2	42.2	62.0
	43.2	47.0	50.5	57.6	66.5	76.2	82.9	80.8	74.8	64.2	51.8	44.3	61.7
McNary	29.2	M	39.0	M	51.8	61.5	64.7	62.1	55.7	52.1	38.1	29.6	4/ 48.4
	30.7	32.7	36.6	43.9	51.6	60.5	65.2	63.1	58.5	49.7	39.0	32.7	47.0
Parker	52.6	59.4	64.1	70.4	78.8	87.2	93.9	90.6	84.6	79.8	62.7	53.5	73.1
	52.7	57.7	62.7	70.0	78.7	87.8	94.4	92.6	86.5	74.8	61.3	53.2	72.7
Payson	37.6	44.6	47.0	53.1	60.2	71.2	75.6	72.7	64.7	61.2	44.3	37.2	55.8
	38.6	41.5	45.0	51.6	59.7	69.1	75.5	72.8	67.1	57.3	46.1	39.4	55.3
Phoenix	55.1	62.5	66.3	73.0	81.4	93.1	96.2	93.9	87.4	82.4	64.4	55.7	76.0
	52.3	56.1	60.6	68.0	77.0	86.5	92.3	89.9	84.6	73.4	60.6	53.3	71.2
Prescott	36.2	41.9	44.5	51.1	59.0	70.3	74.8	71.0	63.4	61.2	44.9	35.5	54.5
	36.2	39.2	42.8	49.4	57.2	66.8	73.1	70.4	65.1	55.0	44.0	37.2	53.0
Safford	43.0	49.6	53.9	60.5	70.1	80.8	84.2	80.1	72.8	68.3	52.5	43.3	63.3
	43.7	47.5	52.9	60.5	68.8	78.5	82.9	80.4	74.9	64.3	51.8	44.2	62.5
Tucson	53.0	59.4	61.4	68.0	76.4	86.8	87.9	85.9	80.4	75.3	59.2	51.9	70.5
	51.1	53.8	57.8	65.0	73.2	82.9	86.2	84.0	80.4	70.4	58.7	52.0	68.0
Willcox	43.0	48.4	51.6	58.7	67.2	75.9	80.1	76.8	70.0	64.8	50.8	42.2	60.8
	42.1	45.0	49.8	56.6	64.5	74.1	79.3	76.7	71.3	60.5	48.9	42.3	59.3
Window Rock	26.4	35.9	40.8	49.1	56.7	66.2	70.9	68.0	60.6	55.6	40.6	29.9	50.1
	27.4	31.6	36.8	44.5	53.4	63.7	69.8	67.1	60.0	49.6	37.3	29.1	47.5
Winslow	33.5	41.3	45.1	53.8	61.6	72.8	79.4	75.1	66.3	61.4	46.4	34.9	56.0
	32.0	38.4	44.9	53.0	62.2	72.3	78.8	76.1	69.0	56.6	42.9	32.7	54.9
Yuma	57.0	63.5	68.1	72.4	79.9	88.9	94.8	93.0	87.6	82.6	65.9	57.3	75.9
	55.9	60.0	64.2	70.7	78.3	87.2	93.6	92.4	87.3	76.4	63.8	56.5	73.9

1/ Top row 1988, bottom row long-term average.
2/ Long-term average not available.
3/ Average temperature for 9 months.
4/ Average temperature for 10 months.
M- Missing
Source: United States Department of Commerce, National Oceanic and Atmospheric Administration; Climatological Data.

TOTAL PRECIPITATION: Arizona, 1988 and long-term average 1/

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
							Inches						
Aguila 2/	M	M	.38	M	.00	.00	1.41	4.83	.10	.00	.56	.10	3/ 7.38
Buckeye	1.33	.30	.06	1.20	T	T	.13	1.90	.00	.86	.48	.02	6.28
	.80	.68	.74	.23	.08	.07	.62	1.23	.70	.60	.47	.73	6.95
Casa Grande	.41	.45	.21	1.38	.00	.04	.60	3.85	.00	2.37	.41	.09	9.81
	.81	.66	.85	.29	.11	.20	.90	1.80	.61	.78	.66	.91	8.58
Chandler Heights	.79	.31	.07	2.82	.00	.00	.35	.25	.00	1.81	.50	T	6.90
	.92	.76	1.02	.28	.14	.06	.83	1.22	.67	.80	.70	.95	8.35
Douglas	.37	.07	.29	1.46	.13	.01	3.97	5.23	2.62	3.05	.18	.10	17.48
	.74	.47	.48	.16	.16	.41	3.51	3.03	1.15	.84	.45	.76	12.16
Flagstaff	1.64	2.30	.14	3.83	.14	1.86	3.48	4.77	.15	1.23	1.14	1.00	21.68
	2.10	1.95	2.13	1.35	.75	.57	2.47	2.62	1.47	1.54	1.65	2.26	20.86
Gila Bend	.42	.27	.02	.45	.00	.00	.28	.65	.00	.81	2.33	T	5.23
	.67	.49	.61	.22	.10	.06	.69	1.01	.46	.48	.40	.63	5.82
Grand Canyon 2/	1.78	1.67	.14	3.19	.42	2.25	.47	2.89	.22	.56	2.00	.78	16.37
Kingman	1.11	1.10	.01	2.49	.02	T	1.00	3.40	.09	.00	.62	.39	10.23
	1.11	.96	1.11	.63	.24	.24	.98	1.36	.75	.67	.71	.89	9.65
McNary	3.71	1.68	T	M	.46	2.89	3.00	7.61	1.45	1.59	1.31	1.27	4/ 24.97
	2.92	2.04	3.08	1.32	.74	.79	3.51	3.78	1.97	2.37	1.99	2.73	27.24
Parker	.33	.29	.00	1.48	T	T	.12	1.58	.00	.00	.01	.00	3.81
	.60	.43	.47	.17	.05	.02	.26	.49	.40	.38	.35	.46	4.08
Payson	2.77	1.43	.17	4.50	T	1.06	2.16	6.40	.56	1.61	1.39	.82	22.87
	2.15	1.85	2.12	1.07	.52	.44	2.81	3.16	1.76	1.85	1.53	2.02	21.28
Phoenix	.90	.23	.17	1.09	.00	.02	.87	.63	.00	2.38	.78	.14	7.21
	.73	.59	.81	.27	.14	.17	.74	1.02	.64	.63	.54	.83	7.11
Prescott	1.31	1.06	.01	2.85	T	1.05	1.81	4.14	.05	.50	.93	.39	14.10
	1.72	1.51	1.53	.76	.50	.53	3.15	3.45	1.49	1.22	1.33	1.65	18.84
Safford	.35	1.49	T	1.43	.00	.30	.28	2.31	.88	1.26	.51	.35	9.16
	.63	.55	.56	.18	.12	.24	1.76	1.55	.99	.86	.40	.76	8.60
Tucson	.41	.53	.35	1.15	.02	.15	1.69	3.64	.80	2.09	.75	.05	11.63
	.83	.63	.68	.32	.14	.22	2.42	2.13	1.33	.88	.62	.94	11.14
Willcox	.73	.97	.08	1.09	.00	.35	2.30	3.51	1.02	2.37	.73	.08	13.23
	.86	.62	.62	.24	.15	.39	2.74	2.60	1.12	.77	.44	.97	11.52
Window Rock	.53	.70	.02	2.24	.14	1.33	1.75	2.97	.36	.26	.88	.25	11.43
	.77	.67	.84	.54	.45	.42	1.66	2.17	1.14	1.26	.71	.88	11.51
Winslow	.24	.82	T	1.28	.09	1.30	.64	1.47	.04	.61	.70	.09	7.28
	.43	.46	.51	.32	.30	.35	1.14	1.41	.83	.90	.41	.58	7.64
Yuma	.34	.03	.03	.61	.00	.10	T	1.17	T	.44	T	T	2.72
	.38	.26	.18	.13	.04	.01	.15	.42	.25	.29	.20	.34	2.65

1/ Top row 1988, bottom row long-term average.
2/ Long-term average not available.
3/ Total precipitation for 9 months.
4/ Total precipitation for 11 months.
M- Missing
T- Trace
Source: United States Department of Commerce, National Oceanic and Atmospheric Administration; Climatological Data.

RESERVOIR STORAGE: Arizona, April 1, 1985-89

Basin or stream	Reservoir	Usable Capacity	Usable storage				
			1985	1986	1987	1988	1989
			Thousand acre feet				
GILA RIVER DRAINAGE							
Agua Fria	Lake Pleasant	157.0	122.9	88.8	65.2	74.2	65.9
Granite	Watson Lake	4.7	4.5	4.4	4.4	3.9	1.5
Granite	Willow Creek	6.1	6.1	4.4	5.3	4.0	1.2
Gila	San Carlos	935.0	1/ 943.9	905.4	782.3	526.9	390.9
Gila	Painted Rock Dam	2,492.0	276.2	0.0	0.0	0.0	0.0
Salt	Roosevelt, Apache, Canyon, and Saguaro	1,710.0	1,652.6	1,687.1	1,621.0	1,550.7	1,512.3
Verde	Bartlett and Horseshoe	310.0	308.6	278.6	293.6	261.8	134.0
COLORADO RIVER DRAINAGE							
Colorado	Lake Havasu	619.0	573.0	558.8	553.0	557.7	563.7
Colorado	Lake Mohave	1,810.0	1,732.6	1,665.2	1,764.5	1,687.3	1,649.5
Colorado	Lake Mead	26,159.0	23,861.0	23,273.0	24,181.0	24,509.0	22,957.0
Colorado	Lake Powell	25,002.0	21,398.0	22,016.0	21,831.0	22,165.0	21,129.0
Little Colorado	Lyman Lake	31.1	30.0	27.4	30.6	25.2	28.0
Show Low Creek	Show Low Lake	5.1	5.1	3.1	5.1	4.5	4.9

SUMMARY: Much below average streamflow was forecast for Arizona over the April-May period. The April 1 snowpack was essentially gone. March precipitation ranged from 59% to 83% of normal over the State. Water year precipitation ranged from 65% to 85% of normal over most of the State. March streamflow was 24% to 51% of average on major streams. Reservoir storage had passed its peak level behind most dams with the possible exception of the Colorado river.

SNOWPACK: Very little snow remained on April 1. The Verde River basin snow was 12% of average with a little snow remaining around the isolated high hills. The Salt River basin snow was gone from all sites used to calculate percent snowpack. Some snow remained in the central White Mountains but measurements in most of this area are not permitted. The Gila basin had 13% of average snow remaining. Snow along the southern portion of the Little Colorado River basin was 10% of average. Snow around the Grand Canyon was 20% of normal and was limited to the North Rim. The San Francisco Peaks stood at 58% of average snow. The Chuska Mountains had 24% of average.

PRECIPITATION: March precipitation was below average in all areas of Arizona. Storm activity was limited to two short periods, March 2-4 and March 26-27. March moisture was 68% of average over the Verde River basin and 73% of average over the Salt River basin. The Little Colorado received 72% of normal moisture. The Gila basin had 62% of average precipitation. Northwestern Arizona moisture was 59% of normal. The Santa Cruz basin received 76% of normal and Sulphur Spring Valley, 83% of normal March precipitation. Generally the whole state remained below average in precipitation for the water year since October 1.

RESERVOIRS: Arizona water supply reservoirs were about as full as they would get by April 1. The snowmelt runoff had peaked except for the mainstream Colorado River. The Salt River Project dams were holding 1,646,300 acre feet at 82% of capacity. San Carlos continued to drop and was 42% full with 390,900 acre feet. Lake Pleasant also was dropping and stood at 42% of capacity with 65,900 acre feet. Colorado River storage in Lakes Havasu, Mohave, Mead, and Powell totaled 46,299,200 acre feet at 86% of capacity. Lyman Lake storage increased to 28,000 acre feet but Show Low Lake dropped to 4,900 acre feet. Watson lake storage rose to 1,470 acre feet and Willow Lake rose to 1,200 acre feet.

STREAMFLOW: Preliminary observations rate the March runoff on the Verde River at 24% of average and the Salt River at 51% of average. The San Francisco River at Clifton ran 29% of normal. The Gila River at Head of Safford Valley had 24% of average flow. March runoff on the Little Colorado River above Lyman Lake was 105% of average due to earlier than normal snowmelt. This runoff would normally have occurred in April. April-May forecasts called for much below average streamflow. The Salt River was forecast to run 22% of average and the Verde River, 29% of average. The San Francisco River at Clifton ran 30% of normal. The Gila River was forecast at 17% of average at Virden and 22% of average at Head of Safford Valley. The Little Colorado River inflow to Lyman Lake was 8% of average after upstream diversion. The inflow to Lake Powell was forecast to be 80% of average.

1/ Lake level above spillway elevation.

Source: United States Department of Agriculture, Soil Conservation Service;Arizona Water Supply Outlook, April 1, 1989.

OTHER STATISTICS

UPLAND COTTON OBJECTIVE YIELD FORECASTING PROGRAM

The upland cotton yield forecasting program of the Arizona Agricultural Statistics Service includes bo[illegible]egular interviews with farmers, and objective measurements from samples in randomly selected fields.

During the yield forecasting season (August 1 to harvest), trained enumerators make monthly visits to randomly selected fields across the State. Row spacing measurements, plant counts, fruit counts, and other pertinent information affecting crop yields are recorded. The grower is interviewed to obtain information about acreage, seeding rates, fertilizer applied, and other information about the fields where objective counts are to be conducted. A State yield is generated from the different models used to forecast total bolls expected, average boll weight, and harvesting loss.

The number of samples varies from year to year as a result of changes in program size, grower refusals, or sometimes losses because of abandonment. Samples are also visited after the crop is harvested to obtain measurement of harvesting loss and other information affecting production.

The sample data published below were edited to eliminate nonrepresentative reports but still contain some sampling fluctuation. They are not official Agricultural Statistics Board estimates, but provide indications and trends in cropping practices.

FERTILIZER USED ON UPLAND COTTON ACREAGE HARVESTED: Arizona, 1984-88

Year	Fields in survey	Acres receiving				Rate per acre receiving 1/			Acres fertilized 2/		
		Any fertilizer	N	P_2O_5	K_2O	N	P_2O_5	K_2O	At or before seeding only	After seeding only	At or before and after seeding
	Number	Percent				Pounds			Percent		
1984	91	99	98	48	4	150	59	29	12	55	33
1985	96	95	95	51	9	157	55	6	11	57	32
1986	97	93	93	39	7	122	47	12	16	56	28
1987	84	95	95	39	5	159	70	21	16	56	28
1988	90	91	90	58	7	144	59	14	21	30	49

1/ To convert phosphoric oxide (P_2O_5) to elemental phosphorus (P), the quantity of P_2O_5 should be multiplied by 0.43642. To convert potassium oxide (K_2O) to elemental potassium (K) multiply by 0.83016.

2/ Percentages apply to acres receiving fertilizer, not to total acres harvested.

UPLAND COTTON SAMPLES: Percentange distribution by row spacing, average row width, seeding rate, and plant population, Arizona, 1984-88

Year	Cotton samples	Row spacing (inches) 1/				Average row width	Seeding rate per acre 2/	Plants per acre
		36.5 and less	36.6 - 38.5	38.6 - 40.5	40.6 and greater			
	Number	Percent				Inches	Pounds	Number
1984	105	5	42	47	6	38.2	19.9	35,232
1985	104	4	51	39	6	38.7	20.1	37,581
1986	99	6	48	42	4	38.5	19.2	44,074
1987	85	6	35	54	5	38.9	19.1	46,008
1988	95	12	43	37	8	38.3	20.8	42,802

1/ Measurement across 8 row spaces in each sample field.

2/ Acid delinted basis.

UPLAND COTTON SAMPLE COUNTS: Bolls produced, weight, lint loss, and yield per acre, Arizona, 1984-88

Year	Final count of large bolls produced per ten feet of row 1/	Adjusted average weight per boll		Unopened bolls not harvested per ten feet of row 1/		Lint loss per acre after all harvest complete	Final adopted yield per acre
		Seed cotton 2/	Lint	Bolls	Lint equivalent per acre		
	Number	Grams	Grams	Number	Pounds	Pounds	Pounds
1984	296	4.03	1.50	4	18.6	81	1,227
1985	312	3.91	1.46	4	15.6	99	1,241
1986	312	4.09	1.57	7	32.4	90	1,301
1987	323	4.18	1.62	8	36.6	142	1,410
1988	294	3.94	1.54	2	10.3	98	1,190

1/ A "large" boll is one inch or greater in diameter, opened or unopened. Counts are actually made on 46 feet of row in each sample field.

2/ Seed cotton adjusted to 5 percent moisture; 453.6 grams equal one pound.

UPLAND COTTON GINNING CHARGES, HARVESTING PRACTICES, AND SELECTED MARKETING COSTS: Arizona, 1983/84-1987/88

Item	Unit	1983/84	1984/85	1985/86	1986/87	1987/88
BALES GINNED (running bales)	Thousands	688	1,036	863	632	796
ACTIVE GINS	Number	98	100	91	85	84
WRAPPING AND GINNING CHARGES:						
Total charge per 480-lb. net weight bale 1/	Dollars	43.17	40.16	40.70	40.33	40.31
METHOD OF HARVESTING:						
Machine-picked	Percent	86	95	97	93	96
Machine-stripped	Percent	2	2/	2/	3	0
Machine-scrapped	Percent	12	5	3	4	4
WEIGHT OF SEED COTTON PER 480-LB. NET WEIGHT BALE:						
Machine-picked	Pounds	1,475	1,491	1,515	1,480	1,460
Machine-scrapped	Pounds	1,907	1,883	1,823	1,829	1,952
COTTON GINNED FROM:						
Trailers	Percent	45	42	39	35	29
Modules	Percent	55	58	61	65	71
CHARGES FOR WAREHOUSING AND RELATED SERVICES 3/:						
Charge per bale per month for insured storage	Dollars	1.74	1.73	1.90	2.02	2.05
Charge per bale for compressing to universal density	Dollars	6.02	6.00	5.80	5.75	5.75
Charge per bale for outhandling	Dollars	4.93	4.39	4.20	4.46	4.35

1/ Includes bagging and ties, drying of seed cotton, lint cleaning, and insurance, but does not reflect any patronage dividends, rebates, transportation to warehouses, industry organization dues, or cotton classing fees.

2/ Less than 1 percent.

3/ Based on published tariffs.

Source: United States Department of Agriculture, Economic Research Service, National Economics Division; Cotton Ginning Charges, Harvesting Practices, and Selected Marketing Costs.

UPLAND COTTON: Estimated percentage planted to specified varieties; by counties 1988 and Arizona, by crop year, 1986-88

Variety	County						Crop year		
	Cochise	Graham and Greenlee	Maricopa	Pima	Pinal	Mohave, La Paz and Yuma	1986	1987	1988
	Percent						Percent		
Acala 1517 E-2	10.5						*	*	.5
Acala 1517-SR1	1.1						*	1	*
Acala 1517-75	18.2	11.5					1	2	1.2
Acala BR-110			.7		4.5		-	-	1.7
Cascot C-13	16.3						*	1	.8
Cascot L-7	18.1						*	1	.8
Deltapine Acala 90	22.4	83.3	68.1	38.7	63.4	64.8	55	53	57.9
Deltapine 20			.9	14.4	1.6	5.0	1	3	2.0
Deltapine 30			-	-	-	-	1	-	-
Deltapine 41			1.5	2.4	4.4	-	8	3	2.0
Deltapine 50			.6	-	-	-	2	2	3.2
Deltapine 55			-	-	.1	-	*	-	-
Deltapine 61			3.2	-	.4	.6	8	9	5.5
Deltapine 62			-	-	-	-	2	-	-
Deltapine 70			.2	-	-	2.9	2	-	-
Deltapine 77			19.9	-	17.4	21.9		17	16.5
Deltapine 120			3.9	-	.4	-	13	3	1.8
Deltapine 775			-	-	-	-	1	-	-
DES 119			.5	17.7	.3	-	*	1	1.1
McNair 235				-		-	1	*	*
Stoneville 506		-	-	26.8			2	2	1.3
Stoneville 825						-	1	*	-
Sun Valley SV 13			.4		1.3		1	*	.6
Sun Valley SV 93			-	-	4.5		1		1.3
All Other	13.4	5.2	.1	-	1.6	4.8	*	2	1.8

* Less than 0.5 percent.

Source: United States Department of Agriculture, Agricultural Marketing Service, Cotton Division.

ALL COTTON: Domestic mill consumption, stocks, and exports, United States, 1983/84-1988/89

Season	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Season Totals 1/
							1,000 running bales						
							Mill consumption 2/						
1983/84	453	560*	459	446	468*	469	448	548*	430	442	503*	354	5,628
1984/85	428	509*	428	390	423*	399	418	519*	419	439	525*	369	5,268
1985/86	458	562*	493	477	486*	595*	499	492	620*	503	489	522*	6,198
1986/87	534	523	683*	529	576*	546	562	734*	573	586	708*	540	7,096
1987/88	606	753*	621	606	610*	568	590	738*	556	551	662*	433	7,294
1988/89 4/	563	676*	538	509	534*								
							Mill consumption per day						
1983/84	22.6	22.4	22.9	22.3	18.7	23.5	22.4	21.9	21.5	22.1	20.1	17.7	21.6
1984/85	21.4	20.4	21.4	19.5	16.9	20.0	20.9	20.8	21.0	21.9	21.0	18.5	20.3
1985/86	22.9	22.5	24.6	23.9	19.5	23.8	24.9	24.6	24.8	25.2	24.4	20.9	23.4
1986/87	26.7	26.2	27.3	26.5	23.1	27.3	28.1	29.4	28.7	29.3	28.3	27.0	27.3
1987/88	30.3	30.1	31.0	30.3	24.4	28.4	29.5	29.5	27.8	27.6	26.5	21.7	28.1
1988/89 4/	28.2	27.0	26.9	25.5	22.2								
							Stocks in consuming establishments 3/						
1983/84	712	639	556	554	611	647	713	741	766	766	822	795	--
1984/85	715	645	542	560	683	812	875	815	796	804	734	733	--
1985/86	685	621	557	570	604	687	728	776	789	782	788	775	--
1986/87	664	582	563	578	620	640	705	702	723	709	674	680	--
1987/88	648	579	530	542	637	722	777	786	790	756	719	709	--
1988/89 4/	651	581	568	555	571								
							Stocks in public storage 3/						
1983/84	6,168	5,870	7,119	8,570	8,790	7,525	6,359	4,997	3,956	2,966	2,212	1,761	--
1984/85	1,491	1,432	3,386	6,321	7,551	7,529	6,541	5,648	4,806	4,008	3,570	2,930	--
1985/86	2,826	3,743	6,122	8,963	10,677	10,747	10,243	9,656	9,072	8,449	7,980	8,116	--
1986/87	7,625	7,996	9,543	10,148	10,204	10,015	9,058	7,878	6,871	5,870	4,821	3,817	--
1987/88	3,239	4,864	7,398	9,456	10,582	10,216	9,149	7,972	6,965	5,973	5,072	4,645	--
1988/89 4/	4,432	5,017	8,259	11,722	13,481								
							Exports 3/						
1983/84	369	329	308	438	566	821	737	783	839	494	429	370	6,419
1984/85	454	249	340	472	712	755	705	692	556	435	359	299	5,943
1985/86	166	218	180	198	236	189	202	206	125	69	68	19	1,875
1986/87	374	496	489	525	664	591	518	750	500	465	554	439	6,366
1987/88	355	304	316	612	536	698	879	649	565	537	486	359	6,297
1988/89 4/	248	173	292	352	524								

* Five week month.

1/ Season totals are adjusted data as reported in Supply and Distribution of Domestic and Foreign Cotton in the United States by Bureau of the Census.

2/ Consumption figures relate to four-week months except as noted. Daily consumption rates calculated on the basis of 20 days for four-week months and 25 days for five-week months with no allowance for holidays.

3/ These data refer to a particular day near the end of the month.

4/ Preliminary.

Source: United States Department of Commerce, Bureau of the Census.

COTTON PROGRESS: Arizona, by survey week, April 1984-December 1988

Month and Week 1/	1984	1985	1986	1987	1988	5-year average
			Percent of acreage			
			Planted			
March 27	35	30	35	15	13	25
April 3	50	45	55	35	35	45
10	55	65	65	45	55	55
17	75	85	80	75	65	75
24	91	90	90	85	70	85
May 1	96	92	95	89	80	90
8	99	95	98	93	89	95
15	99	97	99	97	96	98
22	100	99	99	100	98	99
29	100	99	99	100	99	99
June 5	100	100	100	100	100	100
			Squaring			
May 22	10	10	40	14	25	20
29	35	30	65	40	40	40
June 5	45	75	75	70	45	60
12	70	90	85	80	65	80
19	85	91	92	89	70	85
26	94	96	96	93	92	94
July 3	97	98	97	98	95	97
10	99	100	98	99	96	98
17	100	100	99	100	99	100
24	100	100	100	100	99	100
			Setting bolls			
June 19	40	60	20	25	13	30
26	55	65	50	40	25	45
July 3	65	70	75	60	40	60
10	75	80	90	75	60	75
17	80	80	94	85	75	85
24	91	90	95	89	80	89
31	96	95	96	96	89	94
Aug. 7	98	96	98	99	97	98
14	99	99	100	99	100	99
21	100	100	100	100	100	100
			Open bolls			
Aug. 7	6	6	6	25	25	14
14	35	20	20	30	40	30
21	50	45	45	50	50	50
28	70	70	50	50	70	65
Sept. 4	75	75	60	80	80	75
11	80	85	75	85	86	80
18	90	90	88	87	99	91
25	95	93	93	92	99	94
Oct. 2	99	95	98	93	99	97
9	100	100	99	95	100	99
16	100	100	99	100	100	100

See footnote at end of table.

Continued--

COTTON PROGRESS: Arizona, by survey week, April 1984-December 1988--continued

Month and Week 1/	1984	1985	1986	1987	1988	5-Year average
			Percent of acreage			
			Harvested			
Sept. 11	0	0	2	2	1	1
18	1	0	3	5	3	2
25	3	3	5	7	6	5
Oct. 2	7	7	15	12	7	10
9	15	10	20	14	20	15
16	25	20	30	45	25	30
23	45	30	40	55	25	40
30	55	50	55	65	35	50
Nov. 6	65	55	70	70	50	60
13	75	60	80	75	65	70
20	80	70	86	85	75	80
27	94	80	91	90	80	87
Dec. 4	96	85	94	94	92	92
11	98	92	97	97	96	96
18	99	96	98	98	99	98

1/ Dates are for 1988 crops. Comparable dates are used for 1984-87.

SMALL GRAINS PROGRESS: Arizona, by survey week, 1986-88

Month and Week 1/	1986	1987	1988
		Percent of acreage	
		Planted	
Nov. 29	14	9	3
Dec. 6	20	20	15
13	30	35	25
20	40	45	40
27	50	55	50
Jan. 3	65	75	70
10	75	85	80
17	80	87	85
24	85	90	89
31	95	94	91
Feb. 7	100	98	100
14	100	100	100
		Heading	
Mar. 6	2	3	2
13	13	9	6
20	20	15	12
27	50	35	25
Apr. 3	86	50	35
10	90	60	45
17	93	85	65
24	95	91	75
May 1	96	99	91
8	99	99	98
15	99	100	99
22	100	100	100

Month and Week 1/	1986	1987	1988
		Percent of acreage	
		Jointing	
Feb. 7	6	0	8
14	25	9	20
21	30	20	30
28	40	25	45
Mar. 6	55	45	60
13	70	60	70
20	86	85	80
27	92	93	88
Apr. 3	93	98	94
10	96	99	100
17	100	100	100
		Turning color	
Apr. 10	0	5	5
17	20	11	15
24	25	20	30
May 1	40	35	30
8	60	45	50
15	80	50	70
22	96	80	80
29	98	96	87
June 5	100	100	95
12	100	100	100

continued--

SMALL GRAINS PROGRESS: Arizona, by survey week, 1986-88--continued

Month and week 1/	1986	1987	1988
		Percent of acreage	
		Harvested	
May 15	25	2	2
22	45	11	3
29	55	35	25
June 5	75	55	50
12	85	65	70
19	93	75	85
26	98	85	91
July 3	99	91	95
10	100	97	98
17	100	98	99
24	100	100	100

1/ Dates are for 1988 crops. Comparable dates are used for 1986 and 1987.

PASTURE AND RANGE FEED CONDITIONS: Arizona, May-November, 1984-88

Year	May	June	July	August	September	October	November
				Percent 1/			
1984	69	66	64	79	96	96	92
1985	89	94	86	82	72	70	82
1986	84	69	64	81	89	88	87
1987	89	87	78	65	81	83	77
1988	94	84	80	74	98	92	94

1/ Good to excellent, 80 and over; poor to fair, 65-79; very poor, 50-64; severe drought, 35-49; extreme drought, under 35.

PESTICIDE SALES: By type, Arizona, 1983-87

Pesticide type	1983	1984	1985	1986	1987
			1,000 lbs. technical material		
INSECTICIDES					
Acephate	46	40	36	26	35
Aldicarb	58	84	46	11	21
Azinphos-Methyl	31	35	21	33	49
Carbaryl	54	40	9	26	39
Chlordane	213	47	68	72	54
Chlordimeform	91	106	77	73	57
Chlorpyrifos	30	27	23	69	29
Diazinon	77	71	18	96	66
Dimethoate	140	198	84	93	60
Disulfoton	54	48	52	63	30
Endosulfan	90	105	16	36	136
Ethyl Parathion	18	78	58	88	30
Malathion	255	55	46	68	68
Methomyl	79	74	51	59	109
Methyl Parathion	216	532	238	213	148
Mevinphos	42	46	56	55	59
Monocrotophos	43	90	55	56	65
Permethrin	61	47	64	18	28
Sulfur	620	1,322	1,066	880	69
Other	300	413	272	252	181
TOTAL	2,518	3,458	2,356	2,287	1,333
HERBICIDES					
Benefin	12	29	27	45	38
DCPA	52	33	26	36	30
Dinoseb	85	112	77	91	0
EPTC	69	60	55	92	74
Glyphosate	116	157	93	130	137
MSMA	26	23	44	65	4
Pendimethalin	27	55	29	47	57
Prometryn	71	131	101	101	61
Simazine	101	22	14	20	18
Trifluralin	91	91	64	257	59
Other	172	208	138	223	193
TOTAL	822	921	668	1,107	671
FUNGICIDES, BACTERICIDES					
Copper Sulfate	52	5	26	46	102
Mancozeb	24	24	111	27	5
Maneb	88	101	119	78	21
PCNB	49	15	233	228	8
Zinc Sulfate	25	0	6	35	5
Other	59	58	73	60	28
TOTAL	297	203	568	474	169
DEFOLIANTS, DESSICANTS, AND GROWTH REGULATORS					
Arsenic Acid	5	22	47	101	4
DEF	124	131	132	49	55
Ethephon	1	11	14	14	10
Magnesium Chlorate	0	0	0	55	0
Merphos	1	2	0	0	27
Paraquat	15	9	36	9	6
Sodium Chlorate	616	799	1,669	679	498
Other	24	26	27	44	25
TOTAL	786	1,000	1,925	951	625
FUMIGANTS					
D-D	201	214	0	0	0
Dichloropropene	128	244	27	113	60
Ethylene Dibromide	114	0	0	0	0
Methyl Bromide	4	6	1	18	25
Other	1	5	0	2	11
TOTAL	448	469	28	133	96

Source: University of Arizona, College of Agriculture, Council for Environmental Studies; Pesticide Sales Survey.

COMMERCIAL FERTILIZERS AND MINERALS SOLD: Arizona, 1984-88

Fertilizer and minerals	1984	1985	1986	1987	1988
			Tons		
DRY FERTILIZERS					
Ammonium phosphate, 11-52(53)-0	8,472	14,542	17,415	21,260	27,296
Ammonium phosphate, 11-48-0	5,587	1,202	119	0	847
Ammonium phosphate, 16-20-0	12,645	11,987	8,071	7,947	11,365
Ammonium phosphate, 18-46-0	12,461	13,672	6,855	7,482	8,057
Other dry mixed fertilizer	29,756	20,655	22,477	28,172	31,136
Ammonium nitrate	6,509	6,082	5,047	5,139	5,413
Ammonium sulfate	8,121	11,237	8,203	10,074	11,025
Calcium nitrate and sodium nitrate	2,006	1,725	1,344	1,154	506
Potassium sulfate and/or chloride	940	3,038	421	230	673
Superphosphate, treble	1,967	2,309	3,088	2,346	1,976
Urea	22,738	20,667	18,086	20,852	21,949
Miscellaneous, dry (unmixed)	335	826	247	577	1/
Total Dry Fertilizers	111,537	107,942	91,373	105,233	120,243
LIQUID FERTILIZERS					
Anhydrous ammonia	30,281	32,604	38,137	19,036	19,083
Ammonia solutions, 20-0-0	14,323	10,991	8,578	10,074	7,884
Ammonium nitrate solution, 20-0-0	11,189	10,981	13,146	15,119	21,203
Urea, amm nitrate solution, 32-0-0	81,690	88,254	75,070	100,496	114,710
Calcium amm nitrate solution, 17-0-0	8,299	8,674	7,171	12,037	14,044
Phosphoric acid	998	1,925	1,434	891	1,192
Miscellaneous liquids	40,467	44,170	39,491	36,051	43,201
Total Liquid Fertilizers	187,247	197,599	183,033	193,704	221,317
AGRICULTURAL MINERALS					
Gypsum	40,213	17,576	25,874	47,229	73,618
Iron products	2,312	3,473	2,065	1,957	2,043
Sulfur products	1,303	1,972	1,248	1,399	1,961
Lime sulfur solution	758	509	270	201	223
Sulfuric acid	2,813	3,580	4,351	5,441	3,898
Micro nutrients	1,393	807	1,618	2,117	1,931
Miscellaneous minerals	0	0	0	0	20
Total Agricultural Minerals	48,792	27,917	35,426	58,344	83,694
TOTAL TONNAGE ALL PRODUCTS	347,576	333,458	309,832	357,281	425,254
Tons of Actual Nitrogen 2/	85,591	89,597	84,552	80,850	
Tons of Actual Phosphorus 2/	27,264	28,506	25,196	25,430	
Tons of Actual Potassium 2/	952	2,308	1,487	1,677	

1/ Not available by publication date. Amounts included in "other dry mixed fertilizer".

2/ Amounts of available nitrogen, phosphorus, and potassium in the above commercial fertilizer totals.

Source: Arizona Office of State Chemist.

LAND OWNERSHIP AND ADMINISTRATION: Acres and percent of total, Arizona, by counties, 1988 1/

County	Forest Service	Bureau of Land Management	State of Arizona	Indian reservations	Individual or corporate 2/	Other public lands 3/	Total area 4/	Area of	
								Land	Water 5/
					1,000 acres				
Apache	486	129	662	4,677	1,073	154	7,181	7,175	6
Cochise	490	351	1,368	0	1,659	112	3,980	3,980	0
Coconino	3,265	611	1,142	5,355	712	862	11,947	11,909	38
Gila	1,704	65	31	1,144	95	28	3,067	3,041	26
Graham	396	732	533	1,092	221	3	2,977	2,963	14
Greenlee	748	172	141	0	109	6	1,176	1,176	0
La Paz	0	1,699	224	226	174	566	2,889	2,870	19
Maricopa	659	1,679	675	260	1,740	891	5,904	5,841	63
Mohave	5	5,122	616	544	918	1,417	8,622	8,503	119
Navajo	488	87	371	3,464	1,934	30	6,374	6,371	3
Pima	433	358	927	2,491	768	903	5,880	5,880	0
Pinal	220	300	1,210	770	895	44	3,439	3,420	19
Santa Cruz	419	2	62	0	309	0	792	792	0
Yavapai	1,963	448	1,400	8	1,361	21	5,201	5,198	3
Yuma	0	530	270	8	336	2,387	3,531	3,526	5
Total	11,276	12,285	9,632	20,039	12,304	7,424	72,960	72,645	315

County	Forest Service	Bureau of Land Management	State of Arizona	Indian reservations	Individual or corporate 2/	Other public lands 3/
			Percent of total area			
Apache	7	2	9	65	15	2
Cochise	12	9	34	0	42	3
Coconino	27	5	10	45	6	7
Gila	56	2	1	37	3	1
Graham	13	25	18	37	7	6/
Greenlee	64	15	12	0	9	6/
La Paz	0	59	8	8	6	19
Maricopa	11	29	11	4	30	15
Mohave	6/	59	7	6	11	17
Navajo	8	1	6	55	30	6/
Pima	8	6	16	42	13	15
Pinal	6	9	35	23	26	1
Santa Cruz	53	6/	8	0	39	0
Yavapai	38	9	27	6/	26	6/
Yuma	0	15	8	6/	9	68
Total	15	17	13	28	17	10

1/ Reference dates: Forest Service, September 30, 1987; Bureau of Land Management, September 30, 1987; State of Arizona, May 3, 1988; and Bureau of Indian Affairs, December 31, 1987.

2/ Derived as residual.

3/ Includes land administered by National Park Service, Department of Defense, Bureau of Sport Fisheries and Wildlife, Bureau of Reclamation, and other state, county and city public land.

4/ U.S. Department of Commerce, Bureau of Census, 1980.

5/ The term "water" includes permanent inland water surface such as lakes, ponds and reservoirs having 40 acres or more of area and streams and canals one-eighth mile or more in width.

6/ Less than 0.5 percent.

U.S. AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: Arizona, by county, December 31, 1988

County	Parcels	Acres	Reported value 1/
	Number		1,000 Dol.
Cochise	2	5,929	148
Coconino	2	45,967	170
Gila	24	5,928	954
Graham	2	307	47
Maricopa	142	35,771	285,791
Navajo	1	640	3
Pima	14	102,231	28,258
Pinal	10	43,139	19,342
Santa Cruz	6	7,757	5,355
Yavapai	9	21,559	4,330
Yuma	12	1,057	1,764
Total	224	270,285	346,162

1/ Reported value is purchase price or nonpurchase price (estimated value) at time of acquisition.

Source: United States Department of Agriculture, Economic Research Service, Resources and Technology Division; Foreign Ownership of U.S. Agricultural Land through December 31, 1988: County Level Data.

AGRICULTURAL LANDHOLDINGS BY COUNTRY OF FOREIGN OWNER: Arizona, by county, December 31, 1988

County	Canada	Germany (West)	Netherlands Antilles	United Kingdom	All others
			Acres		
Cochise	5,612	0	0	0	317
Coconino	320	0	0	0	45,647
Gila	5,928	0	0	0	0
Graham	307	0	0	0	0
Maricopa	12,993	1,110	94	243	21,331
Navajo	640	0	0	0	0
Pima	300	0	5,314	0	96,617
Pinal	9,721	620	0	0	32,798
Santa Cruz	560	7,197	0	0	0
Yavapai	553	0	0	0	21,006
Yuma	5	0	0	0	1,052
Total	36,939	8,927	5,408	243	218,768

Source: United States Department of Agriculture, Economic Research Service, Resources and Technology Division; Foreign Ownership of U.S. Agricultural Land through December 31, 1988: County Level Data.

USE OF AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: Arizona, by county, December 31, 1988

County	Cropland	Pasture	Forest	Other agriculture	Other non-agriculture	Total
			Acres			
Cochise	0	5,929	0	0	0	5,929
Coconino	0	320	0	45,647	0	45,967
Gila	0	5,915	13	0	0	5,928
Graham	40	47	0	0	220	307
Maricopa	13,739	8,568	0	4,374	9,090	35,771
Navajo	0	640	0	0	0	640
Pima	764	100,180	0	43	1,244	102,231
Pinal	3,460	31,500	441	5,616	2,122	43,139
Santa Cruz	0	7,757	0	0	0	7,757
Yavapai	720	20,399	0	0	440	21,559
Yuma	975	0	0	55	27	1,057
Total	19,698	181,255	454	55,735	13,143	270,285

Source: United States Department of Agriculture, Economic Research Service, Resources and Technology Division; Foreign Ownership of U.S. Agricultural Land through December 31, 1988: County Level Data.

GRAZING FEES: Arizona, 1985-89

Approximately 44 percent of Arizona's total area of 72,960,000 acres is federal and state public trust lands administered by the U.S. Department of Interior's Bureau of Land Management, the U.S. Department of Agriculture's Forest Service, and Arizona's State Land Department. A majority of these public lands are leased for livestock grazing.

For the years 1979-1985, fees for grazing on federal public lands were determined by a formula established in the Public Rangelands Improvement Act of 1978 (PRIA). This act expired December 31, 1985. On February 14, 1986, in the absence of Congressional action, the President, through Executive Order 12548, indefinitely extended the PRIA formula subject to a few minor changes.

These minor changes included: (1) the Forage Value Index would use the weighted average estimate of the annual rental charge per head per month rather than Animal Unit Month; (2) the Beef Cattle Price Index means the weighted average annual selling price for beef cattle in the 11 Western States, and (3) the Prices Paid Index would reflect selected livestock production costs in the Western States. In addition, the Executive Order specified that the fee "shall not be less than $1.35 per Animal Unit Month and that annual adjustments would not exceed plus or minus 25 percent of the previous year's grazing fee".

Effective March 1, 1988, the Secretary of Agriculture issued a final ruling that established regulations for annually determining federal grazing fees. The fee system now in effect is the formula prescribed in the Executive Order of February, 1986, and, in most respects, is the same grazing fee formula enacted by Congress in 1978. Grazing fees will be based on a rate per head month.

A head month is a month's use and occupancy of range by one animal, except for sheep or goats. A full head month's fee is charged for a month of grazing by adult animals; if the grazing animal is weaned or 6 months of age or older at the time of entering the federal lands; or will become 12 months of age during the permitted period of use. For fee purposes 5 sheep or goats are equivalent to one cow, bull, steer, heifer, horse, or mule.

Arizona adopted the federal fee formula for state trust lands beginning in 1982, except that a base year fee of $.95 is used instead of the federal base fee of $1.23, the difference being a credit for range improvements made on state lands and for taxes paid on those lands by the lessees.

Grazing fee formula components are compiled by the USDA's Agricultural Statistics Board and furnished to USDI Bureau of Land Management, USDA's Forest Service, and the Arizona State Land Department for calculating the grazing fee each year. The components are made public at the same time, during the last week of December.

PUBLIC LAND GRAZING FEE FORMULATION

Grazing fee components	Unit	Base year 1964-68	Grazing fee year				
			1985	1986	1987	1988	1989
Grazing Rates on Private Land 1/	Dollars	3.65	8.86	8.40	8.10	8.54	8.75
Forage Value Index (FVI) 2/		100	243	230	222	234	240
Average Price Received for Beef Cattle per Cwt. 3/	Dollars	22.04	57.80	53.70	51.80	59.96	65.46
Beef Cattle Price Index (BCPI) 4/		100	262	244	235	272	297
Prices Paid Index (PPI) 5/		100	395	397	388	381	386
Federal Grazing Fee 6/	Dollars	(1.23)	1.35	7/ 1.35	7/ 1.35	1.54	1.86
State Grazing Fee 6/	Dollars	(.95)	1.05	.73	.66	1.19	1.43

1/ Privately-owned, non-irrigated land in eleven western states: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming. Rates for 1985 through 1987 are per AUM. Rate for 1988 and 1989 is per head month.

2/ Private grazing rates current year divided by base year times 100.

3/ Average for twelve months November-October prior to the fee year for eleven western states; see footnote 1.

4/ Beef cattle price current year divided by base year times 100.

5/ Index of prices paid for beef cattle production inputs as percent of base year.

6/ The grazing fee = base year fee (FVI + BCPI - PPI) ÷ 100. 1989, for example = $1.23 (240 + 297 - 386) ÷ 100 = $1.86 (federal); $.95 (240 + 297 - 386) ÷ 100 = $1.43 (state).

7/ Minimum fee established by Executive Order.

USUAL PLANTING AND HARVESTING DATES: By crops and principal producing areas, Arizona

Crop	Usual planting dates	Usual harvesting dates			Principal producing counties
		Begins	Most active	Ends	
FIELD CROPS					
ALFALFA HAY		Feb. 10		Dec. 1	Maricopa, La Paz, Yuma, Pinal
BARLEY	Nov. 5 - Feb. 10	May 5	June 1 - June 15	July 10	Maricopa, Pinal, Yuma, Graham
CORN FOR GRAIN	Apr. 1 - June 1	Sept. 15	Oct. 1 - Nov. 1	Dec. 1	Cochise, Graham,
ALL COTTON	Mar. 1 - May 15	Sept. 15	Oct. 20 - Dec. 15	Feb. 1	Maricopa, Pinal, La Paz, Yuma, Cochise, Graham, Pima
ALL WHEAT	Nov. 5 - Feb. 10	May 15	June 1 - June 30	July 15	Maricopa, Yuma, La Paz, Pinal
VEGETABLES, MELONS, AND POTATOES					
BROCCOLI	Aug. 15 - Oct. 15	Oct. 20	Dec. 1 - Feb. 28	Apr. 1	Yuma, Maricopa
CANTALOUPS					
Summer	Feb. 15 - Apr. 1	May 25	June 10 - July 10	July 31	Maricopa, La Paz
Fall	July 15 - Sept. 10	Sept. 20	Oct. 1 - Nov. 1	Nov. 20	Maricopa,
CARROTS	Aug. 20 - Mar. 1	Oct. 10	Jan. 1 - June 1	July 20	Maricopa
CAULIFLOWER	Aug. 15 - Nov. 1	Nov. 15	Jan. 1 - Mar. 1	Apr. 30	Yuma, Maricopa
HONEYDEWS					
Spring	Feb. 15 - April 15	June 1	July 1 - July 15	Aug. 1	Maricopa, La Paz,
Fall	July 15 - Sept. 15	Sept. 25	Oct. 15 - Nov. 1	Nov. 25	Maricopa, La Paz, Pinal
OTHER LETTUCE					
Spring	Nov. 1 - Feb. 15	Mar. 5	Apr. 1 - May 15	June 20	Maricopa, Cochise
Fall	Aug. 1 - Oct. 5	Sept. 25	Oct. 20 - Nov. 30	Dec. 15	Maricopa, Cochise, Pinal, Pima
WESTERN LETTUCE	Aug. 15 - Dec. 1	Nov. 5	Dec. 1 - Mar. 31	Apr. 25	Yuma, La Paz
DRY ONIONS	Oct. 10 - Dec. 5	May 5	May 25 - June 15	July 10	Maricopa
WATERMELONS	Feb. 1 - Apr. 10	June 1	July 1 - Oct. 1	Oct. 30	Maricopa, Yuma, Pinal
SPRING POTATOES	Jan. 1 - Mar. 1	Apr. 25	May 15 - June 15	July 20	Maricopa
CITRUS					
GRAPEFRUIT		Oct. 1	Nov. 15 - June 1	July 20	Maricopa, Yuma
LEMONS		Aug. 1	Sept. 20 - Mar. 1	Apr. 15	Yuma, Maricopa
NAVEL ORANGES		Nov. 1	Nov. 20 - Jan. 15	Feb. 15	Maricopa, Yuma
VALENCIA ORANGES		Jan. 1	Mar. 1 - May 1	June 30	Yuma, Maricopa
TANGERINES		Nov. 1	Jan. 1 - Mar. 1	Apr. 1	Yuma, Maricopa

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06/89

PRINCIPAL CROPS: Acreage harvested by counties, and total State production, Arizona, 1987

Crop	State Total	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
Upland Cotton: Acres	289,000	0	12,800	0	0	8,900	900	23,600	119,600	4,500	0	8,500	83,200	0	0	27,000
Bales, 480 lb. net wt.	849,000															
American Pima Cotton: Acres	90,800	0	2,100	0	0	12,700	0	4,800	22,300	0	0	3,400	42,100	0	0	3,400
Bales, 480 lb. net wt.	213,000															
Alfalfa: Acres	160,000	3,100	7,300	500	0	5,200	500	40,000	48,500	3,100	3,100	1,000	11,400	500	4,100	31,700
Production, tons	1,248,000															
Other hay: Acres	30,000	1,200	1,000	500	*	1,000	*	6,000	5,800	800	500	*	1,000	500	2,600	8,600
Production, tons	135,000															
Durum wheat: Acres	45,000	*	*	*	0	800	*	4,500	11,800	0	*	*	14,800	0	0	10,800
Production, tons	114,750															
Other wheat: Acres	44,000	*	*	*	0	500	*	5,100	18,700	*	*	*	1,200	*	500	15,900
Production, tons	135,400															
Barley: Acres	22,000	*	500	0	*	1,200	*	*	8,200	700	*	700	7,400	*	*	2,100
Production, tons	52,270															
Corn for Grain: Acres	20,000	2,600	6,800	*	*	3,500	*	1,600	1,000	0	2,500	*	300	*	700	500
Production, tons	56,000															
Sorghum for Grain: Acres	11,000	700	700	0	0	1,200	*	1,300	3,800	*	*	*	1,700	0	0	1,000
Production, tons	27,720															
Potatoes: Acres	4,900	0	1/	0	0	0	0	0	4,900	0	0	0	0	0	0	1/
Production, cwt.	1,348,000															
Principal vegetables: Acres	74,600	0	2,120	0	0	0	0	2/ 5,360	3/ 19,060	0	0	1,020	2,260	0	0	44,780
Production, cwt.	18,647,000															
Grapes: Acres	7,100	0	*	0	0	0	0	0	2,830	0	0	*	2,265	*	*	1,705
Production, tons	31,000															
Grapefruit: Acres	5,900	0	0	0	0	0	0	0	3,580	0	0	0	1/	0	0	2,320
Production, ctns.	4,400,000															
All oranges: Acres	10,900	0	0	0	0	0	0	0	6,310	0	0	0	1/	0	0	4,590
Production, ctns.	5,400,000															
Lemons: Acres	15,500	0	0	0	0	0	0	0	1,500	0	0	0	1/	0	0	14,000
Production, ctns.	14,200,000															
Tangerines: Acres	3,200	0	0	0	0	0	0	0	1,610	0	0	0	1/	0	0	1,590
Production, ctns.	1,400,000															
Other crops: Acres 4/	64,839															
Total acres harvested 5/	898,739															

* Acres harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Included with Maricopa County to avoid disclosure of individual operations.

2/ Includes acreage in Yuma County to avoid disclosure of individual operations.

3/ Includes acreage in Cochise and Pinal counties to avoid disclosure of individual operations.

4/ Includes miscellaneous fruits, nuts, vegetables, and field crops not listed above. Not available by county.

5/ Includes double crop acreage.

PRINCIPAL CROPS: Acreage harvested by counties, and total State production, Arizona, 1988

Crop	State Total	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
Upland Cotton: Acres	349,000	0	17,400	0	0	9,900	1,100	30,200	148,200	5,200	0	9,400	98,200	1/	0	29,400
Bales, 480 lb. net wt.	865,000															
American Pima Cotton: Acres	128,000	0	1,200	0	0	14,300	0	6,400	33,400	0	0	5,300	60,800	0	0	6,600
Bales, 480 lb. net wt.	241,000															
Alfalfa: Acres	155,000	3,600	6,900	*	*	4,400	500	36,400	46,400	4,000	3,100	1,500	11,600	600	2,900	32,600
Production, tons	1,225,000															
Other hay: Acres	25,000	1,100	800	*	*	800	*	5,000	5,000	700	*	*	700	*	2,200	7,000
Production, tons	100,000															
Durum wheat: Acres	50,000	*	*	0	*	*	*	3,300	16,200	*	*	*	14,000	0	0	13,100
Production, tons	129,000															
Other wheat: Acres	35,000	*	*	*	0	*	*	8,300	12,700	*	*	*	1,400	*	400	8,900
Production, tons	102,900															
Barley: Acres	13,000	*	*	0	*	700	*	*	3,900	*	*	300	4,400	*	*	2,000
Production, tons	32,450															
Corn for Grain: Acres	17,000	1,900	5,400	*	0	2,500	300	1,200	600	0	2,300	*	300	0	500	600
Production, tons	61,880															
Sorghum for Grain: Acres	4,000	*	*	0	0	*	*	*	*	0	0	*	*	0	0	*
Production, tons	11,200															
Potatoes: Acres	5,300	0	0	0	0	0	0	0	5,300	0	0	0	0	0	0	2/
Production, cwt.	1,246,000															
Principal vegetables: Acres	77,500	0	2,525	0	0	0	0	2,440	3/ 18,450	0	0	950	2,475	0	0	50,660
Production, cwt.	18,252,000															
Grapes: Acres	6,700	0	*	0	0	0	0	0	2,855	0	0	*	1,730	*	*	1,820
Production, tons	25,500															
Grapefruit: Acres	6,000	0	0	0	0	0	0	0	3,500	0	0	0	2/	0	0	2,500
Production, ctns.	3,000,000															
All oranges: Acres	10,600	0	0	0	0	0	0	0	6,170	0	0	0	2/	0	0	4,430
Production, ctns.	3,620,000															
Lemons: Acres	15,500	0	0	0	0	0	0	0	1,500	0	0	0	2/	0	0	14,000
Production, ctns.	7,300,000															
Tangerines: Acres	3,500	0	0	0	0	0	0	0	2,030	0	0	0	2/	0	0	1,470
Production, ctns.	900,000															
Other crops: Acres 4/	61,379															
Total acres harvested 5/	962,479															

* Acres harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Included with Pima County to avoid disclosure of individual operations.

2/ Includes acreage in Maricopa County to avoid disclosure of individual operations.

3/ Includes acreage in Cochise and Pinal counties to avoid disclosure of individual operations.

4/ Includes miscellaneous fruits, nuts, vegetables, and field crops not listed above. Not available by county.

5/ Includes double crop acreage.